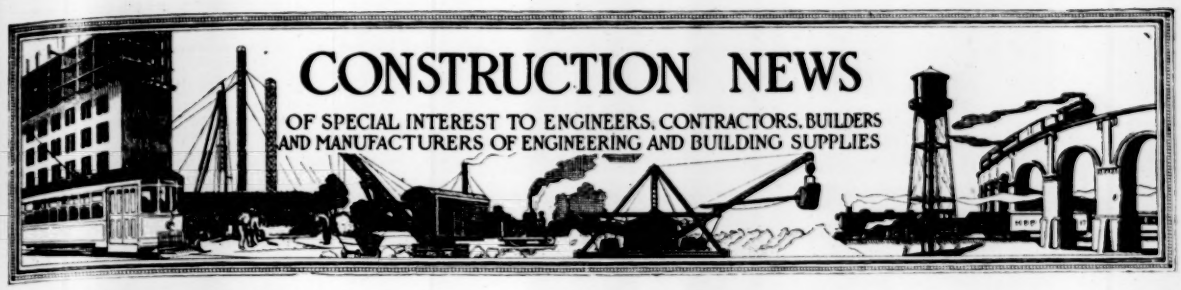
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
Apr. 11	Spencer, Pa.	Apr. 3
Apr. 14	Salem, N. J.	Apr. 3
Apr. 15	Duluth, Minn.	Mar. 13
Apr. 15	Freeport, O. Adv. Mar. 27 and Apr. 3.	Mar. 27
Apr. 18	Akron, O. Adv. Mar. 27 and Apr. 3.	Mar. 27
Apr. 18	Akron, O.	Apr. 10
Apr. 18	Bayonne, N. J. Adv. Apr. 10.	Apr. 10
Apr. 23	Kansas City, Mo. Adv. Apr. 3 and 10.	Apr. 3
Apr. 24	Benson, N. C. Adv. Apr. 3 and 10.	Apr. 10
Apr. 25	Akron, O. Adv. Apr. 3.	Apr. 3

SEWERS

Apr. 14	Pittston, Pa.	Apr. 10
Apr. 15	Roanoke, Va.	Apr. 3
Apr. 17	Pawtucket, R. I. Adv. Mar. 27 to Apr. 10.	Mar. 27
Apr. 21	Highland Park, N. J. Adv. Apr. 10.	Apr. 10
Apr. 21	Akron, O.	Apr. 10
Apr. 22	Cleveland, O.	Mar. 27
Apr. 22	Akron, O.	Apr. 10
Apr. 24	Chicago, Ill.	Apr. 10
Apr. 24	Coatesville, Pa. Adv. Apr. 10.	Apr. 10
Apr. 28	Flagstaff, Ariz.	Apr. 10
Apr. 30	West Roxbury, Mass.	Apr. 10
May 1	Duluth, Minn.	Apr. 3
May 6	Newark, N. J.	Apr. 3
May 6	Cleveland, O. Adv. Apr. 3 and 10.	Apr. 10

BRIDGES

Apr. 15	Copper Valley, Va.	Mar. 20
Apr. 15	Plainfield, N. J.	Apr. 3
Apr. 15	Rahway, N. J.	Apr. 3
Apr. 15	Elizabeth, N. J.	Apr. 3
Apr. 16	Ottawa, Ont.	Feb. 20
Apr. 16	Oshkosh, Wis. Adv. Apr. 10.	Apr. 10
Apr. 19	Marshall, Ill.	Apr. 3
Apr. 22	Kingston, N. Y. Adv. Mar. 20.	Mar. 20
Apr. 22	Toledo, O.	Mar. 27
Apr. 29	Franklin, Pa. Adv. Apr. 10.	Apr. 10
Apr. 29	Ottawa, Ont.	Apr. 10
May 5	Akron, O.	Apr. 10

STREETS AND ROADS

Apr. 11	Pennsylvania Adv. Mar. 20 to Apr. 3.	Mar. 27
Apr. 12	Johnstown, Pa. Adv. Mar. 27 and Apr. 3.	Apr. 3
Apr. 12	Indiana	Apr. 3
Apr. 13	Columbus, O.	Apr. 3
Apr. 14	Johnson City, Tenn.	Mar. 20
Apr. 14	Tunica, Miss.	Mar. 20
Apr. 14	Minneapolis, Minn.	Mar. 27
Apr. 14	Lincoln, Neb.	Mar. 27
Apr. 14	Savannah, Ga.	Apr. 3
Apr. 14	Washington, Pa.	Apr. 3
Apr. 14	Worthington, Minn.	Apr. 10
Apr. 14	Louisana	Apr. 10
Apr. 14	Newark, N. J.	Apr. 10
Apr. 14	Port Huron, Mich.	Apr. 10
Apr. 15	New York, N. Y.	Apr. 10
Apr. 15	Little Rock, Ark.	Apr. 10
Apr. 15	Oregon	Apr. 10
Apr. 15	East Providence, R. I.	Apr. 10
Apr. 15	Billings, Mont.	Mar. 20
Apr. 15	Greenville, Miss. Adv. Mar. 20 to Apr. 3.	Mar. 13
Apr. 15	St. Louis, Mo.	Mar. 20
Apr. 15	Columbus, Neb.	Mar. 27
Apr. 15	Keyser, W. Va.	Mar. 27
Apr. 15	Pawtucket, R. I. Adv. Mar. 27 to Apr. 10.	Mar. 27
Apr. 15	Bronson, Fla.	Apr. 3
Apr. 15	Pittsburgh, Pa.	Apr. 3
Apr. 15	Keyser, W. Va.	Apr. 3
Apr. 15	Midland, Mich.	Apr. 3
Apr. 15	Fergus Falls, Minn.	Apr. 3
Apr. 15	Michigan	Apr. 10
Apr. 15	West Orange, N. J.	Apr. 10
Apr. 16	Wayne, Neb.	Mar. 27
Apr. 16	Rhode Island Adv. Apr. 3.	Apr. 3
Apr. 16	Pawtucket, R. I.	Apr. 10
Apr. 16	Akron, O.	Apr. 10
Apr. 17	Arkansas Adv. Apr. 3 and 10.	Apr. 3
Apr. 17	New York, N. Y.	Apr. 3
Apr. 17	Columbus, O.	Apr. 10
Apr. 17	Cohoes, N. Y. Adv. Apr. 3 and 10.	Apr. 10
Apr. 18	Savannah, Ga. Adv. Apr. 10.	Apr. 10
Apr. 18	Goldendale, Wash.	Apr. 3
Apr. 18	St. George, S. I., N. Y.	Apr. 10
Apr. 18	Ohio	Apr. 10
Apr. 18	Salem, S. D.	Apr. 10
Apr. 19	Strathroy, Ont.	Apr. 10
Apr. 19	Lincoln, Neb.	Apr. 10
Apr. 19	Gandy, Neb.	Mar. 27
Apr. 20	Terra Haute, Ind.	Apr. 3
Apr. 21	Wadena, Minn.	Apr. 10
Apr. 21	Indiana	Apr. 3
Apr. 21	New Iberia, La.	Apr. 3
Apr. 21	Tulsa, Okla.	Apr. 3
Apr. 21	Kent, Wash.	Apr. 3
Apr. 22	Spencer, W. Va.	Mar. 13
Apr. 22	Toledo, Ohio	Apr. 10
Apr. 22	Salem, N. J. Adv. Apr. 10.	Apr. 10
Apr. 22	Hartford, Conn.	Apr. 10
Apr. 22	Maryland Adv. Apr. 10.	Apr. 10
Apr. 22	Maryland	Apr. 10
Apr. 23	Baltimore, Md.	Apr. 10
Apr. 24	Illinois	Apr. 3
Apr. 24	New York, N. Y. Adv. Apr. 3.	Apr. 3
Apr. 24	New Mexico	Apr. 3
Apr. 24	Auburn, Me. Adv. Mar. 27 and Apr. 3.	Apr. 3
Apr. 24	Dormont, Pa.	Apr. 10
Apr. 25	Rutherfordton, N. C.	Apr. 10
Apr. 25	Edenburg, Pa.	Apr. 10
Apr. 27	Pittsburgh, Pa.	Apr. 3
Apr. 30	Akron, O.	Apr. 10
Apr. 30	New York, N. Y.	Apr 10
May 2	Pennsylvania Adv. Apr. 10.	Apr. 10
May 5	North Dakota	Apr. 10
May 5	Worthington, Minn.	Apr. 10
May 7	Burlington, N. J.	Apr. 10
May 15	Plymouth, Wis.	Apr. 10
May 19	Merced, Cal.	Apr. 10
June 10	Clarksville, Pa.	Apr. 3

RAILWAYS

Apr. 15	British Columbia	Apr. 3
Apr. 15	Ontario	Apr. 10
Apr. 15	Pennsylvania Adv. Apr. 3 and 10.	Apr. 10

EXCAVATION AND DREDGING

Apr. 11	Bridgeport, Conn. Adv. Mar. 27 and Apr. 3.	Apr. 3
Apr. 15	Trenton, N. J. Adv. Mar. 20 to Apr. 10.	Mar. 27
Apr. 15	Ft. Dodge, Ia.	Apr. 3
Apr. 16	Spencer, Ia.	Apr. 3
Apr. 20	Albany, N. Y. Adv. Apr. 3 and 10.	Apr. 10
Apr. 22	Crowley, La. Adv. Mar. 27 to Apr. 10.	Apr. 3
Apr. 24	New Holland, N. C.	Apr. 10
Apr. 29	New York, N. Y. Adv. Apr. 3.	Apr. 3
May 6	Paragould, Ark.	Apr. 3
May 14	Poplar Bluff, Mo.	Apr. 3
May 15	Mobile, Ala. Adv. Apr. 10.	Apr. 10

INDUSTRIAL WORKS

Apr. 10	Vancouver, Va.	Mar. 27
Apr. 12	New York, N. Y.	Apr. 3
Apr. 14	Brooklyn, N. Y.	Mar. 27
Apr. 15	Long Island City, N. Y.	Apr. 3
Apr. 15	New York, N. Y.	Apr. 10
Apr. 16	Providence, R. I.	Apr. 10
Apr. 16	Winnipeg, Man.	Mar. 27
Apr. 16	New Orleans, La.	Apr. 10
Apr. 16	Bellair, O.	Mar. 27
Apr. 18	Sheboygan, Wis.	Mar. 20
Apr. 22	Chippewa Falls, Wis.	Apr. 10
May 1	Brainerd, Minn.	Mar. 27
May 1	Joplin, Mo.	Apr. 3

BUILDINGS

Apr. 11	Cobleskill, N. Y	Apr. 3
Apr. 14	Superior, Wis.	Mar. 27
Apr. 15	Newark, N. J.	Feb. 6
Apr. 15	Chisholm, Minn.	Mar. 27
Apr. 15	Buhl, Minn.	Mar. 27
Apr. 15	Memphis, Tenn.	Apr. 10
Apr. 15	Chicago, Ill.	Apr. 10
Apr. 15	New Orleans, La.	Apr. 10
Apr. 16	Weston, Ont.	Apr. 10
Apr. 16	New Haven, Conn.	Apr. 10
Apr. 16	St. Louis, Mo.	Apr. 10
Apr. 20	Hurley, S. D.	Apr. 10
Apr. 21	Albany, N. Y.	Mar. 27
Apr. 21	Moorhead, Minn.	Apr. 10
Apr. 22	Bovey, Minn.	Mar. 20
Apr. 22	St. Louis, Mo.	Apr. 10
Apr. 22	Quincy, Cal.	Apr. 3
Apr. 22	Lancaster, Minn.	Apr. 10
Apr. 24	Springfield, Mass.	Apr. 10
Apr. 25	Waterdown, Ont.	Apr. 3
Apr. 25	Cameron, Wis.	Apr. 10
Apr. 30	Vancouver, B. C.	Apr. 10
May 1	Wakefield, Minn.	Mar. 20
May 1	Virginia, Minn.	Mar. 27
May 1	St. Louis, Mo.	Apr. 3
May 15	Verona, N. J.	Apr. 10

FEDERAL GOVERNMENT WORK

Apr. 12	Drilling Plant, etc.—Buffalo, N. Y. Adv. Mar. 27 and Apr. 3.	Apr. 3
Apr. 14	Cranes — Spec. 3477 — Boston, Mass.	Mar. 27
Apr. 14	Septic Tank, etc. — Spec. 3841—Chatham, Mass.	Apr. 3
Apr. 14	Building Addition — Spec. 3799—Portsmouth, N. H.	Apr. 3
Apr. 14	Gasoline Supply System—Spec. 3734 — Philadelphia, Pa.	Apr. 3
Apr. 14	Steel Tower — Washington, D. C.	Apr. 10
Apr. 14	Dredging and Filling—Spec. 3844—Norfolk, Va	Apr. 10
Apr. 14	Cranes—Spec. 3477—Boston, Mass.	Apr. 10
Apr. 15	Pumps, etc.—Omaha, Neb. Adv Feb. 27 and Mar. 6	Mar. 6
Apr. 15	Road Work—Washington, D. C.	Mar. 27
Apr. 15	Transits and levels—Washington, D. C.	Apr. 10
Apr. 16	Coal—Jacksonville, Fla. Adv. Mar. 20 to Apr. 10.	Mar. 27
Apr. 16	Removing wreck—Buffalo, N. Y. Adv. Mar. 20 to Apr. 3.	Mar. 27
Apr. 16	Drilling Plant, etc.—Buffalo, N. Y. Adv. Apr. 3 and Apr. 10.	Apr. 10

Bids Close		See Eng. News-Record
Apr. 17	Valve Jacks — Wheeling, W. Va. Adv. Mar. 20 to Apr. 10.	Mar. 27
Apr. 18	Post Office—Mt. Pleasant, Mich.	Mar. 13
Apr. 21	Post Office — Rhinelander, Wis.	Mar. 13
Apr. 21	Post Office and Court House —Erie, Pa. Adv. Mar. 27 to Apr. 10.	Apr. 3
Apr. 21	Sewage Disposal System— Washington, D. C.	Apr. 3
Apr. 21	Barracks, Mess Hall and Officers Quarters — Spec. 3831—Yorktown, Va.	Apr. 10
Apr. 21	Cranes—Spec. 3827— Norfolk, Va.	Apr. 10
Apr. 21	Officers Quarters — Spec. 3829 — South Charleston, W. Va.	Apr. 10
Apr. 21	Galvanizing Plant — Spec. 3772—Norfolk, Va.	Apr. 10
Apr. 21	Pump House—Spec. 3826— Rockaway, N. Y.	Apr. 10
Apr. 21	Roads—Spec. 3850—Indianhead, Md.	Apr. 10
Apr. 22	Lighthouse — Baltimore, Va.	Apr. 10
Apr. 23	Post Office—Gilmer, Tex.	Mar. 13
Apr. 23	Earth Work—St. Louis, Mo. Adv. Apr. 3 and 10.	Mar. 27
Apr. 23	Soil and Sod—Galveston, Texas	Apr. 3
Apr. 23	Levee Work — St. Louis, Mo. Adv. Apr. 3 and 10.	Apr. 10
Apr. 24	Lookout Gallery—Saginaw, Mich. Adv. Apr. 3 and Apr. 10.	Apr. 10
Apr. 24	Dredging — San Francisco, Cal.	Apr. 3
Apr. 25	Towboat—Memphis, Tenn. Adv. Mar. 27 to Apr. 10.	Apr. 3
Apr. 26	Dredging—Norfolk, Va. Adv. Apr. 10.	Apr. 10
Apr. 28	Dredging—New York, N. Y.	Apr. 3
Apr. 28	Officers Quarters — West Point, N. Y. Adv. Apr. 3 and 10.	Apr. 3
Apr. 28	Dormitory, Bismarck, N. D.	Apr. 10
Apr. 29	Dredging — New York, N. Y. Adv. Mar. 27 and Apr. 3.	Apr. 3
Apr. 29	Foundation—Pamlico Sound, N. C.	Apr. 10
Apr. 30	Levee Work—St. Louis, Mo. Adv. Apr. 3 and 10.	Apr. 3
Apr. 30	Accumulators, etc.—Louisville, Ky. Adv. Apr. 3 and 10.	Apr. 10
May 1	Wharf—Boston, Mass.	Apr. 3
May 3	Dredging — Jacksonville, Fla. Adv. Apr. 3.	Apr. 3
May 5	Dredging—Wilmington, Del. Adv. Apr. 10.	Apr. 10
May 6	Lock and abutment—Cincinnati, O. Adv. Apr. 10.	Apr. 10
May 8	Marine Railway — Ft. Mifflin, Pa. Adv. Apr. 10.	Apr. 10
May 8	Post Office—Mount Pleasant., Tex.	Apr. 10
May 8	Marine Railway — Ft. Mifflin, Pa.	Apr. 10
May 9	Rock Crusher — Florence, Ala.	Apr. 10
May 9	Dredging — New York, N. Y. Adv. Apr. 10.	Apr. 10
May 12	Dredging — New York, N. Y. Adv. Apr. 10.	Apr. 10

MISCELLANEOUS

Apr. 11	Culvert—Lockport, N. Y.	Apr. 3
Apr. 11	Paving Material — Maplewood, N. J.	Apr. 3
Apr. 11	Paving Material — Providence, R. I. Adv. Mar. 27 to Apr. 10.	Apr. 3
Apr. 11	Trestle—Trenton, N. J.	Apr. 3
Apr. 14	Trap Rock — East Orange, N. J.	Apr. 10
Apr. 14	Tanks, etc. — Long Island City, N. Y.	Apr. 10
Apr. 15	Pipe—Newark, N. J.	Apr. 10
Apr. 15	Asphalt Flux, etc.—Ottawa, Ont.	Apr. 10
Apr. 15	Pipes, Etc.—Detroit, Mich.	Apr. 3
Apr. 17	Stone, etc.—St. George, S. I., N. Y.	Apr. 10
Apr. 18	Steel Piping—Los Angeles, Cal.	Apr. 10
Apr. 21	Levee—Port Allen, La.	Apr. 3
Apr. 22	Road Oil—Fresno, Cal.	Apr. 10
Apr. 22	Steel—Philadelphia, Pa.	Apr. 10
Apr. 28	Repairing and Repainting Court House — Lancaster, Pa. Adv. Apr. 10.	Apr. 10
Apr. 29	Freight Shed—New York, N. Y. Adv. Apr. 3.	Apr. 3
Apr. 29	Meter Pipes—Toledo, O.	Apr. 10
Apr. 30	Dam, etc.—Scituate, R. I. Adv. Apr. 10.	Apr. 10

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

La., Glenmora—City plans to build waterworks system. X. A. Kramer, Magnolia, Miss., engr.

Minn., Albert Lea—City receives bids about May 1, building 1,500,000 gal. rein.-con reservoir and 15,000 gal. rein.-con. pressure tank. About $50,000. J. H. A. Brahtz, 320 Commercial Bldg., St. Paul, consult. engr.

Tex., Stamford—City having plans and specifications made for waterwork improvements to include concrete dam with turbine engines, reservoir 200 ft. wide, 10 ft. deep and 1 mi. long. About $400,000.

Okla., Chandler—City plans election to vote on $10,000 bonds to repair, renew, extend and improve waterworks system and $5000 bonds to improve and extend mains and submains of sewerage system. D. D. Lanshaw, city clk.

Okla., Newkirk—City receives bids about May 20, rebuilding electric light and waterworks plants. Work involves 22,000 ft. 4-6 in. c. i. pipe, two 40 h. p. motors and three 165 h. p. oil engines. About $170,000. H. G. Olmsted, city engr. Noted Mar. 27.

Ariz., Flagstaff—J. Marshall, supt. water wks. comn., recommends that city build reservoir. About $150,000.

Cal., Hermosa Beach—City directed B. Brown, city clk., to communicate with engineers regarding construction of water system. About $100,000 may be expended for project.

BIDS DESIRED

N. J., Bayonne—Until Apr. 18, by Bd. Comrs., furnishing and laying 3100 ft. 30 in. water pipe upon pile and timber foundation on east and west banks of Hackensack River, double 30 in. c.i. pipe with flexible joints in trench to be dredged under Hackensack River, valves, connections, etc. M. R. Sherrerd, 20 Clinton St., Newark, consult. engr. Noted Feb. 27; advertised in this issue.

N. C., Benson—Until Apr. 24, by Mayor and Bd. Comrs. for water-works, electric light plant and sewerage systems. Work involves deep well and pump, combined water and electric station, 60 and 100 kw. units, boilers, pumps and reservoir, 5 mi. water pipe lines, 4 mi. sewers and sewage disposal plant; (no bids on electric distribution system). G. C. White, Durham, engr.; advertised in this issue.

O., Akron—Until Apr. 18, by H. S. Morse, dir. pub. serv. furnishing c. i. pipes as follows, 140 tons 36 in. Class (B), 11 tons 30 in. Class (C), 88 tons 12 in. Class (B), 70 tons 10 in. Class (B), 15 tons 8 in. Class (B), 30 tons 8 in. Class (C), 130 tons 6 in. Class (B), 60 tons 6 in. Class (C), 10 tons 4 in. Class (B), 20 tons 4 in. Class (C), and 124 tons special castings; advertised in this issue.

Mich., Dearborn—Until Apr. 18, by F. C. Reamer, village clk., building 4550 ft. 6 in. and 112 ft. 10 in. c.i. watermains, to include hydrants, valves, valve fittings and valve boxes. C. W. Hubbel, 2348 Penobscot Bldg., Detroit, engr. Noted Apr. 3.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract.)

N. Y., New York—H. J. Hayes, comr. water supply, gas and electricity, Municipal Bldg., received bids Apr. 1, completing abandoned contract for furnishing, delivering and laying 12 in. water main across East River from East 140th St. to North Brother Island, and hauling and laying water mains in East 140th St. and on North Brother Island, Bronx Boro., from Masterson Constr. Corp., New York City, $6900; W. F. Crowley, 301 South 3rd St., Brooklyn, $7150; H. E. Fox, 81 East 125th St., $7800. Noted Mar. 27.

★**N. D., Minot**—City let contract building 3,000,000 gal. rein.-con. reservoir, to Bartelson & Ness, Minot. About $54,577. Noted Mar. 6.

★**Okla., Poteau**—City let contract building waterworks system, to Merkle Mchy. Co., 508 Interstate Bldg., Kansas City, Mo., $89,780. Noted Feb. 20.

Sewers

PROPOSED WORK

N. Y., Rochester—City plans to build sewer and pave Chili Ave. from Genesee Park Blvd. to Barge Canal. About $100,000. A. C. Poole, city engr.

N. J., Phillipsburg—City voted $65,000 bonds to build sewerage system and sewage disposal plant. C. E. Tildon, city engr.

Fla., Leesburg—See "Streets and Roads."

Ala., Florence—City plans to issue $100,000 bonds to build Sanitary Sewerage System No. 2. R. E. Mead, city engr.

Ind., Terre Haute—City plans to lay 6300 ft. vitr. sewer pipes in various streets. About $11,000. R. A. Koerner, city engr.

Wis., Oconto Falls—Village voted $20,000 bonds to build sewerage system.

Okla., Chandler—See "Waterworks."

Okla., Lindsay—City plans to build sewage disposal plant and sewers in various streets. About $65,000. Benham Eng. Co., 1300 Colcord Bldg., Oklahoma, engrs.

Ariz., Clifton—City voted $150,000 bonds to build sanitary sewers and sewage treating plant. A. J. Kerr, town engr. Noted Feb. 27.

Cal., Fresno—City receives bids in April or May, building trunk line sewerage system in North Fresno Sanitary Sewer Dist. About $200,000. Bonds voted for project. C. Murray, city engr. Noted Dec. 26.

BIDS DESIRED

Mass., West Roxbury (Boston P. O.)—Until Apr. 30, by T. F. Sullivan, comr. pub. wks., Boston, for sewerage system in Center St. between South and Spring Sts., and outlets in Central, Guernsey and La Grange Sts.

N. J., Highland Park (New Brunswick P. O.)—Until Apr. 24, by Boro Council, Fire House, Raritan Ave., building storm sewers and drains. J. T. Hopkins, boro engr.; advertised in this issue.

Pa., Coatesville—Until Apr. 24, by W. S. G. Cook, city clk., building storm water drain, 5400 lin.ft. long varying in size from 36-87 in. Brick, segmental tile block or rein. con. pipe in part or whole. Work involves 25 manholes and 80 storm water inlets with necessary vitr. pipe connections. C. A. Niles, city engr.; advertised in this issue.

Pa., Dormont—See "Streets and Roads."

Pa., Pittston—Until Apr. 14, by city, building lateral sewer on Dock St. from South Main St. westerly to the Lehigh Valley R.R. tracks. W. F. McHugh, city clk.

O., Akron—Until Apr. 21, by Coventry Land & Impvt. Co., 1115 South Main St., furnishing material, and completing various sanitary sewers, house branches and water services in Firestone Park. Work involves 2350 ft. 8 in., 910 ft. 10 in., and 440 ft. 6 in. vitr. pipe sewers, 200 water services, including 1500 ft. lead or galvanized iron pipe, etc. About $16,000. A. B. Murphy, 1115 South Main St., engr.

O., Akron—Until Apr. 22, by Comrs. Summit Co., building sewerage system to be known as Tallmadge Dist. No. 1. Work involves 2500 ft. 12 in. vitr. pipe. About $20,000.

O., Cleveland—City is receiving bids building sewer in East 76th St. from Woodland Ave. to East 75th St., involving 850 ft. 12-18 in. vitr. pipe; East 96th St. from Seminal to Lowell Aves., 300 ft. 12

Sewers (Continued)

in. vitr. pipe; East 19th St. from Prospect to Central Aves., 340 ft. 12-20 in. vitr. pipe, 45,000 ft. b.m. plank and timber, 330 ft. No. 3 C and 300 ft. No. 2 C brick sewer; Lowell Ave. from East 96th to 99th Sts., 340 ft. 12 in. vitr. pipe; East 61st St. from Quincy Ave. to north end of same, 105 ft. 12 in. vitr. pipe; St. Clair Ave. from East 88th to 93rd Sts., 1590 ft. 12-24 in. vitr. pipe; East 130th St. from Iroquois Ave. to city limits, 1280 ft. 12-20 in. vitr. pipe; Adelbert Rd. from Euclid Ave. to New York Central Ry., 40 ft. 12-24 in. vitr. pipe, 710 ft. No. 4 C and 950 ft. No. 3 C brick sewers; East 131st St. from Iroquois Ave. to city limits, 1280 ft. 12-20 in. vitr. pipe; Ada Ave. from Lynn Dr. to Lakeview Rd., 480 ft. 8-12 in. vitr. pipe; East 18th St. from Prospect to Central Aves., 30 ft. 12 in. vitr. pipe, 830 ft. No. 8 C brick sewer, 10 cu.yd. class B concrete, 25,000 ft. b.m. hardwood grillage, 50,000 ft. b.m. plank and timber. R. Hoffman, city engr.

O., Cleveland—Until May 6, by E. Shattuck, comr. purchases and supplies, 219 City Hall Bldg., building sewage treatment works at Westerly site. Work includes grit chambers, 2 story, settling tanks, outfall conduits, buildings and appurtenances, and involves 15,000 lin.ft. wooden piling, 30,000 cu.yd. excav., 15,000 cu.yd. concrete, 850 tons steel reinforcement, 60 tons c.i. piping, etc.; advertised in this issue.

Ill., Chicago—Until Apr. 24, by J. McGillen, clk. sanitary dist., Room 700, 910 South Michigan Ave., building Des Plaines River Sewage treatment works; consisting of Div. A, sewage treatment plant, including excav., concrete, reinforcing steel, c.i. piping, etc.; Div. C, structural steel; Div. N, traveling crane; Div. O, pumping machinery, including three 14 in. centrifugal pumps; Div. P, electrical equipment, including vertical shafts; Div. R, blowers; Div. V, sluice gates; Div. W, venturi meters.

Ariz., Flagstaff—Until Apr. 28, by A. A. Johnston, town clk., building and extending sanitary sewerage system. About $95,000 available. Olmested & Gillelen, 1112 Hollingsworth Bldg., Los Angeles, Cal., engrs. Noted Jan. 30; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contracts laying 610 ft. 10 and 15 in. vitr. clay sewer pipes in Cameron and Tovar Sts., involving 600 cu.yd. earth trenching, to Daddario & Booth, Mattapan, $2133; 740 ft. 10-15 in. pipe in Levant and Tebro Sts., involving 700 cu.yd. earth trenching, to A. Cefalo, Roslindale, $3016; 500 ft. 10-12 in. pipe in Deer St., involving 500 cu.yd. earth trenching, to A. Baruffaldi, Somerville, $2977.

N. Y., Brooklyn—E. Riegelmann, boro. pres., received lowest bids building sewer in Remsen and Utica Aves., from L. Kalischer, 1225 Myrtle Ave., $239,088; J. F. Cogan, 233 Bway., New York City, $259,000; Rogers & Haggerty, $272,000. Noted Mar. 27.

★**N. Y., Buffalo**—City will remove between 2 and 3 mi. deposit estimated at 4342 cu.yd. from 8 ft. trunk sewer without diverting flow. Work will be done by day labor. Noted Feb. 27.

N. J., Newark—Passaic Valley Sewerage Comn., 820 Essex Bldg., received bids building Sect. 30 of Newark Branch Sewer, tunnel method from North Eastern Constr. Co., 225 5th Ave., New York City, $251,001; open trench method, from Foundation Co., 233 Bway., New York City, $215,789. Noted Mar. 6

★**Fla., Moore Haven**—See "Streets and Roads."

★**Miss., Pascagoula**—City let contract building sewerage system, to J. C. Mishler, 105 Spruce St., Chattanooga, Tenn. About $64,415.

O., Cleveland—City received bids building sewer (1) in 9 mi. Creek from East 152nd St. to point westerly, (2) Nottingham Rd., from St. Clair Ave. to New York Central & St. Louis Ry., Plan "A," (3) Nottingham Rd., Plan "B," (4) Gifford Ave. from West 45th to West 55th Sts., (5) West 28th St. from Montclair to Natchez Aves., (6) Hood Ave. from West 21st to West 28th Sts., (7) West 21st St. from Saratoga St. to city limits, (8) West 47th St. from Clark to Oakley Aves., (9) West 18th St. from Forestdale to Willowdale Aves., (10) West 32nd St. from Barber Ave. to westerly end of same, (11) Joy Court from West 30th to West 32nd Sts., from W. P. Gibbons, 340 Leader-News Bldg., (1) $11,266, (3) $43,932, (5) $3244, (7) $1953, (9) $879; W. McDowell, 10,319 Miles Ave., (1) $12,237, (2) $44,002; M. Nichols & Son, 11,422 Fairchild Ave., (1) $13,168; D. Zulls, 10,501 Hudson Ave., (2) $39,593; Randell & Cooper, Lorain, (2) $44,946; J. Duff & Co., 603 Marshall Bldg., (3) $41,440; P. Ciraci, 11,811 Browning Ave., (3) $44,576; H. Hahn, 2973 East 78th St., (4) $4955; E. Cesa & Son, 2462 Baldwin Rd., (4) $5686; Brookside Constr. Co., 3905 West 20th St., (4) $5706, (5) $2064, (6) $4201, (7) $1329; George Bros., 1148 Bolivar Rd., (5) $2610, (6) $5072; Iannetta Bros., 2064 East 125th St., (6) $4987; Aftoon & Joseph, 887 The Arcade, (8) $1591; A. Mahmood, 9802 Enclid Ave., (8) $2050, (10) $1039, (11) $735; N. Salem, 237 Bradley Court, (8) $2052, (10) $957, (11) $884; Amata Contg. Co., 343 The Arcade, (9) $874; Frederick & Hosanic, 635 Bradley Court, (9) $880; Yahya Bros., 3539 Independence Rd., (10) $998, (11) $833. Noted Mar. 27.

Mich., Detroit—Dept. Pub. Wks. received bids trenching, backfilling, and laying (a) 2158 ft. 24 in. vitr. crock sewer arms in Livernois Ave.; (b) 4786 ft. 5 ft. 6 in. cylindrical sewer in Alter Road and Mack Ave. from point 224 ft. north of Charlevoix to Bedford Aves., from R. D. Baker, 1415 Penobscot Bldg., (a) $6000; J. F. Afeld, Ford Bldg., (a) $6369; (b) $77,040; Western Constr. Co., Ford Bldg., (a) $6500; J. A. Mercier, 216 Hammond Bldg., (b) $78,016; Walker & Teitert, Winsdor, Ont., (b) $81,429. Noted Apr. 3.

Ill., Chicago—Bd. Local Impvts. received bids Mar. 28, building Augusta Ave. sewerage system from north branch of Chicago River to west line of block 1, Elstons Addition to Elstons Ave., Augusta St. to California Ave.; Noble St. from Augusta to Kinzie Sts.; North Leavitt St. from North Ave. to Kinzie St., (a) with permanent pavement, (b) without permanent pavement, from Ryan Co., 4500 West Division St., (a) $1,079,815; (b) $909,760; H. J. McNichols Co., 924 South Kilbourne Ave., (a) $1,173,970; (b) $997,907; J. W. Farley, 118 North La Salle St., (a) $1,147,790; (b) $974,865. Noted Mar. 20.

Minn., St. Paul—City received no bids furnishing labor and material building Portland Ave. outfall sewer from Mississippi River to point 808 ft. east and sewer in Sommerville Ave. from Mississippi River to point 1420 ft. northeasterly, $3229 and $41,773 respectively. Bids will probably be readvertised. O. Claussen, city engr. Noted Mar. 27.

★**Tex., Dallas**—City let contract building sewer in Jefferson Ave. from 10th to Marsalis Sts., to F. A. Eldridge, Dallas, $12,281. Work involves 1347 ft. 30-36 in. rein.-con. and 600 ft. 18-24 in. vitr. tile pipe. Noted Mar. 13.

Bridges

PROPOSED WORK

Ga., Valdosta—Comrs. Lowndes Co. plan to build bridge over Withalacoochee River on National Highway. About $50,000.

Wis., Menasha—City having plans prepared by E. B. Parsons, engr., Watertown, building 400 ft. rein.-con. bridge over Fox River, 24 ft. driveway and 2 walks. About $84,000. Noted Feb. 6.

Montana—See "Railways."

Ark., Fayettville—V. P. Knott, engr., Fayettville, and State Highway Dept., Little Rock, receives bids about Apr. 15, building steel bridge about 9 mi. from here, consisting of one 100-125 ft. span, 12-16 ft. roadway and 100 ft. approach, involving 50 yd. or more of concrete piers and abutments, also one near Woolsey and Brentwood Twps. 150-200 ft. long, consisting of 2 steel spans and approach, 12-16 roadway, pier and abutments of concrete.

Wash., Metaline—J. H. Sexsmith, Newport, has applied to Comrs. Pen d'Oreille Co. (Newport) for a franchise to build and operate toll bridge over Pen d'Oreille River here. About $35,000.

Que., Ste. Anna de la Perade—City plans to build concrete and steel bridge, 75 ft. long, 18 ft. wide, over Gendron River. About $15,000. A. Des Aulniers, mayor.

Ont., St. Mary's—Town council plans to build memorial bridge. About $20,000. I. S. Runee, Gordon Blk., Stratford, archt.

BIDS DESIRED

Pa., Franklin—Until Apr. 29, by Comrs. Venango Co. building following bridges: 1—bridge over Scrubgrass Creek, 1 mi. north of Clintonville, Clinton Twp., to be known as Crawford Bridge; bids will be accepted on following types of structure: (a) rein. con., consisting of 66 ft. arch span, 15 ft. rise with three 16 ft. approach spans, (b) stone arch, with 66 ft. span and 20 ft. rise, (c) Pony Warren truss, 102.5 ft. span, 16 ft. roadway with variety of floor types, both cut stone and concrete abutments. No. 2—bridge over North Sandy Creek in Polk Boss, either steel pony truss, 45 ft. span with 18 ft. roadway and creosoted wood block floor or through girder, rein. con. bridge of same span and roadway with concrete floor. Both types on rein. con. abutments. No. 3—repairing present concrete floor of Washington St. bridge with tarvia KP and laying thereon creosoted wood block floor on 1 in. sand cushion; advertised in this issue.

O., Akron—Until May 5, Comrs. Summit Co. furnishing materials and building North Hill Viaduct, rein.-con., 2790 ft. long, will have 16 arch spans from 116-191 ft. long, 12 short girder spans, 52 ft. roadway and two 10 ft. sidewalks. Certain piers will rest on sand and gravel, others on concrete piles, advertised in this issue.

Wis., Oshkosh—Until Apr 16, by Bd. Pub. Wks., building 470 ft. bridge over Fox River on Oregon and Jackson Sts., 38 ft. wide. W. F. Porath, comr. Scherzer Rolling Lift Bridge Co., 5454 Everett Ave., Chicago, engrs.

Minn., Wadena—See "Streets and Roads."

Ont., Ottawa—Until Apr. 29, by Bd. Control building bridge over Rideau River on St. Patrick St. Bids will be received on (a) 4 arch rein.-con., (b) steel half trough plate girder bridge, four 120 ft. spans, 43 ft. 8 in. between main girders, bracketted sidewalk on each side. About $190,000. A. F. McCallum, city engr.

Man., Ethelbert—City receiving bids building 3 rein.-con. bridges. About $20,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**S. C., Gaffney**—Southern Ry. let contract building rein.-con. bridge, on Montgomery St., to M. M. Elkins, Gaffney, $60,000. Noted Oct. 10, 1918.

★**Ga., Oglethorpe**—Comrs. Macon Co. let contract building steel and rein.-con. bridge over Flint river, between here and Montezuma Contr. No. 1 to Austin Bros. Bridge Co., 156 Greenwood Ave., Atlanta, $45,040; Contr. No. 2 and 3 to Nicholos Contg. Co., Trust Co. of Georgia Bldg., Atlanta, $81,464 and $27,558 respectively. Noted Jan. 30.

★**Miss., Charleston**—Lamb-Fish Lumber Co. let contract building sub- and superstructure of steel bridge over Tallahatchie River, 7 mi. west of here, to Gould Contg. Co., Ind. Bldg., Nashville, Tenn., about $23,000 (erection only, all materials furnished by owners). Noted Feb. 27.

Wis., Janesville—City received bids building 324 ft. rein.-con. bridge over Rock River on Jackson St., six 54 ft. spans, 55 ft. wide, from Wausau Iron Wks., Wausau, $78,400; Koss Constr. Co., 1st and Court Sts., Des Moines, Ia., $82,990; J. P. Cullen & Son, Janesville, $84,126. Noted Mar. 6.

★**N. D., Williston**—Comrs. Williams Co. let contract building concrete culverts and bridges on Federal Aid Project No. 3, to Independent Bridge Co., Minneapolis, Minn. Work involves 681 cu.yd. excav., 325 cu.yd. Class (A) concrete; 207 cu. yd. Class (B) concrete and 1252 lin. ft. piling. Total cost $26,248.

★**Mo., Kansas City**—City let contract building concrete and steel viaduct over Kaw River on 23rd St., 1600 ft. long, 60 ft. roadway, to A. S. Hecker Co., Union Ave., Cleveland, O. Cost plus percentage basis, subject to approval of council. Noted Jan. 23.

Structural Steel

PROPOSED WORK

Ont., Toronto—See "Miscellaneous."

Reinforced Concrete

PROPOSED WORK

N. Y., New York—See "Industrial Works."

Minn., Cloquet—See "Buildings."

BIDS DESIRED

Minn., Wadena—See "Streets and Roads."

Cal., Merced—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Pa., Phila.**—See "Miscellaneous."

Streets and Roads

PROPOSED WORK

Massachusetts—State Highway Comn., Boston, plans to build 18 ft. highway between Osterville, Hyannis and Centerville Twps., Barnstable Co. About $25,000.

Streets and Roads (Continued)

Mass., Medford—(Boston P. O.)—City receives bids in summer widening Riverside Ave. to 60 ft.; readjusting intersection of Main, Salem and High Sts., bituminous macadam. About $100,000. Noted Jan. 23.

N. Y., Rochester—See "Sewers"

N. Y., Seneca Falls—Bd. Trustees approved petition to pave Rumsey and Clinton Sts. to village boundary, Fall St. to Black Brook Rd., Route No. 6.

N. J., Hackensack—Bd. Freeholders Bergen Co. plan to improve 4.63 mi. Paterson Plank Rd., either with 6 in. concrete base and granite block, cost, $145,000, reclifted granite block, $121,000 or lay 5 in. concrete base on present surface $61,000. A. McClare, c/o. engr.

N. J., Newton—Comrs. Sussex Co. plan to expend $56,205 to build roads during year.

N. J., Trenton—City plans to widen East Front St. from Willow to Montgomery Sts. About $450,000. Election will be held soon to vote on bonds for project.

N. J., Verona—Town soon lets contract building 19,000 ft. concrete curb on Bloomfield Ave. from Montclair line to North Caldwell Boro. line. About $30,000. F. W. Crane, 460 Bloomfield Ave., Montclair, engr. Noted Mar. 6.

Pa., Berks—City plans to pave and repair 2 mi. streets, asphalt, waterbound macadam or bituminous macadam. About $100,000.

Pa., Ellijay—City had surveys made building concrete road, ½ mi. long. About $10,000.

Pa., Wheatland—City election Apr. 29, to vote on $25,000 bonds to improve various streets.

W. Va., Keyser—Mineral Co., Elk. Dist. plans election Apr. 19, to vote on $137,000 bonds to build roads. E. Smith, Piedmont, W. Va., engr.

W. Va., Princeton—Mercer Co. having surveys made by E. E. Kunkle, co. engr., for hard surfacing 23 mi. Princeton-Flat-Top Rd. About $81,600.

N. C., Henderson—City plans to pave various streets. About $300,000.

S. C., Columbia—City plans to pave Harden and Divine Sts. with 6 in. concrete, also resurface Main St. T. K. Legare, city engr.

Ga., Waycross—Ware Co. plans election in May to vote on $750,000 bonds to build various roads.

Fla., Leesburg—City voted $150,000 bonds to pave various streets, install sewers, and purchase light and water plants. Noted Feb. 27.

Ala., Albertville—Town soon lets contract building 5 mi. cement sidewalk, 4 ft. wide. J. W. Baker, mayor.

Miss., Meadville—Franklin Co. plans election soon to vote on $400,000 bonds to build various roads. Federal Government will appropriate $100,000 toward project.

Miss., Pascagoula—City voted $165,000 bonds to pave streets.

Miss., Sardis—Panola Co. voted bonds to build 30 mi. link in Jefferson Davis Highway. Federal government will appropriate $50,000 toward cost.

Miss., Senotobin—Tate Co. voted $300,000 bonds to build 100 mi. gravel roads, 14 ft. wide. Noted Feb. 20.

La., Alexandria—Rapides Parish plans election to vote on $500,000 bonds to build various roads. Bonds for $500,000 previously voted.

La., Gretna—Jefferson Parish voted $150,000 bonds to build and improve roads. Noted Feb. 6.

La., Marksville—Avoyelles Parish plans election Apr. 26 to vote on $1,000,000 bonds to build 130 mi. Jefferson and Evangeline Highways.

Ky., Corbin—City soon receives bids, paving 3.08 mi. with rein.-con., waterbound macadam, Kentucky rock asphalt or other bituminous materials. H. E. Wentworth, city engr.

Ky., Paducah—City plans to improve 5 mi of streets. About $300,000. L. A. Washington, city engr.

Ohio—State Highway Comn., Columbus, soon lets contract grading, constructing bridges and culverts and paving with concrete 1 mi. Columbus-Portsmouth Rd., Sect. "L." Pike Co., cost $31,294; grading, constructing bridges and culverts and paving with monolithic brick, 1.51 mi. Ohio River Rd., Sects. "P-2, P-1," Sciota Co., $56,072; same work on 1.01 mi. Portsmouth-Lucasville Western Rd., Sect. "A-2," Sciota Co., $37,492.

O., Cleveland—Comrs. Cuyahoga Co. soon receive bids paving with brick over concrete, West Lake Rd. from Bay Village to Rocky River and Union Rd. in Bedford Village; also paving with brick and concrete Wooster Rd. and Euclid Ave. between Chardon Rd. and county line. W. A. Stinchcomb, co. engr.

O., East Liverpool—City plans to grade, repave and build sewers in Sophia, 8th, Bway., Market, Dresden, Pennsylvania and Race Sts., also in St. Clair Ave. from McKinnon St. to entrance of Riverview cemetery and in St. Clair Ave. from Horn Switch to Youngs Alley. J. C. Kelly, city engr.

O., Sylrania—City having plans prepared building 7000 ft. concrete or waterbound macadam road, 12-14 ft. wide. About $20,000. L. A. Boulay Co., 1250 Nicholas Bldg., Toledo, engrs.

O., Toledo—City plans to grade, drain, curb, and pave 868 ft. Mallett Ave. from Lewis to North Haven Aves., 24 ft. wide, involving 2600 sq.yd. vitr. brick, 1770 lin.ft. curbing and 919 cu.yd. earth excav., cost $12,673; 1560 ft. Kingston Ave. from Navarre Ave. to Earl St., 24 ft. wide, 4600 sq.yd. vitr. brick or concrete, and 3200 lin. ft. curbing; 1131 ft. Lawnview Dr. from Sylrania Ave. to north end of street, 24 ft. wide, 3300 sq.yd. vitr. brick, 2300 lin.ft. curbing, and 2295 cu.yd. earth excav., $14,561. H. C. McClure, 229 Valentine Bldg., Toledo, engr.

Mich., Detroit—Dept. Pub. Wks. soon lets contract improving (a) Leslie Ave. from Oakman to Wabash Aves., 26 ft. wide, involving 4213 cu. yd. excav., 4919 lin. ft. curbing, 6956 sq.yd. paving, 140 cu. yd. concrete, 376 lin. ft. retaining stone; (b) Waterloo Ave. from Connors to Drexel Aves., 26 ft. wide, 3682 cu. yd. excav., 3940 lin. ft. curbing, 6474 sq.yd. paving, 123 cu. yd. concrete, 714 lin. ft. retaining stone; (c) Buena Vista Ave. from Herman to Ellen Aves., 24 ft. wide, 3612 cu. yd. excav. 3569 lin. ft. curbing, 5087 sq. yd. paving, 104 cu.yd. concrete, 327 lin. ft. retaining stone; (d) Alexanderine Ave. from Duboise St. to McDougal Ave., 26 ft wide, 2380 cu.yd. excav., 3310 lin. ft. curbing, 5449 sq.yd. paving, 101 cu.yd. concrete, 494 lin. ft. retaining stone; (e) Fulton Ave. from Wabash R. R. to westerly end of street, 26 ft. wide, 1345 cu. yd. excav., 2311 lin. ft. curbing, 3482 sq. yd. paving, 66 cu.yd. concrete, 184 lin. ft. retaining stone; (f) Grand Ave. from Herman Ave. to 12th St., 24 ft. wide, 2233 cu. yd. excav., 2404 lin. ft. curbing, 3384 sq. yd. paving, 68 cu. yd. concrete, 168 lin. ft. retaining stone; (g) Waverly Ave. from Herman Ave. to 12th St., 26 ft. wide, 1799 cu. yd. excav., 2390 lin. ft. curbing, 3405 sq.yd. paving, 69 cu.yd. concrete, 208 lin. ft. retaining stone; (i) Tyler Ave. from Herman Ave. to 12th St., 24 ft. wide, 1592 cu. yd. excav., 2393 lin. ft. curbing, 3396 sq. yd. paving 69 cu. yd. concrete, 208 lin. ft. retaining stone; (i) Leland St., from St. Aubin Ave. to Chene St., 26 ft. wide, 1253 cu.yd. excav., 1807 lin. ft. curbing, 2988 sq. yd. paving, 53 cu. yd. concrete, 281 lin. ft. retaining stone; (j) Huron St. from Ottawa Ave. to Bagg St., 20 ft. wide, 1253 cu. yd. excav., 997 lin. ft. curbing, 2107 sq.yd. paving, 50 cu. yd. concrete, 923 lin. ft. retaining stone; all pavement asphaltic concrete on 6 in. concrete base. C. W. Hubbell, city engr. Noted Mar. 20, 27th and Apr. 3.

Wis., Sheboygan—City having plans prepared by C. U. Boley, engr., Sheboygan, grading, constructing curbs and gutter and paving with concrete 2½ in. Lighthouse Ct. to 2nd St., 16 ft. wide.

Minn., Albert Lea—Comrs. Freeborn Co. plan to grade and gravel 15 mi. road, Project No. 37, 24 ft. wide. About $60,000. E. V. H. Brown, Albert Lea, engr.

Minn., Anoka—Comrs. Anoka Co. plan to pave 20 mi. road, Project No. 16. About $233,000. H. H. Thurston, Anoka, engr.

Minn., Austin—Comrs. Mower Co. plan to grade and gravel 27 mi. Project No. 38. About $100,000. O. J. Simmons, Austin, engr.

Minn., Bemidji—Comrs. Beltrami Co. plan to grade, gravel and surface 37 mi. State Aid Rd., 24 ft. wide, involving 44,000 cu.yd. gravel surfacing and 200,000 cu.yd. excav. About $180,000. S. D. Snyder, Bemidji, engr.

Minn., Benson—Comrs. Swift Co. plan to pave 7 mi. road, cost $237,000; also gravel surface 12½ mi. road. L. R. Johnson, Benson, engr.

Minn., Blue Earth—Comrs. Faribault Co. plan to grade and gravel 50 mi. road, 24 ft. wide, involving 60,000 cu.yd. surfacing and 300,000 cu.yd. excav. About $250,000. J. R. Short, Blue Earth, engr.

Minn., Brainerd—Comrs. Crow Wing Co. plan to grade and gravel 22 mi. State Aid Rd., 24 ft. wide, involving 26,000 cu.yd. gravel surfacing and 130,000 cu.yd. excav., cost, $90,000; 5 mi. State Aid 18 ft. wide, 53,000 cu.yd. paving and 20,000 cu.yd. excav., $120,000. C. L. Motl, Brainerd, engr.

Minn., Caledonia—Houston Co. plans to grade and gravel 46 mi. road, 24 ft. wide, involving 55,000 cu.yd. gravel surfacing and 460,000 cu.yd. excav. About $500,000. C. D. Conzett, Caledonia, engr.

Minn., Cambridge—Comrs. Isanti Co. plan to grade and gravel 20 mi. road, 20 ft. wide, Project No. 41, cost $80,000; 20 mi. road, 24 ft. wide, involving 24,000 cu.yd. gravel surfacing and 100,000 cu.yd. excav., $104,000. P. M. Torell, Cambridge, engr.

Minn., Carlton—Comrs. Carlton Co. plan to grade and gravel 12 mi. road, Project No. 17. About $23,000. P. D. Mold, Carlton, engr.

Minn., Elbow Lake—Comrs. Grant Co. plan to grade and gravel 6 mi. road, 24 ft. wide, involving 7200 cu.yd. gravel surfacing and 72,000 cu.yd. excav. About $45,000. W. E Burgess, Elbow Lake, engr.

Minn., Elk River—Comrs. Sherburne Co. plan to pave 4 mi. road, 24 ft. wide, Project No. 44. About $100,000. F. W. Nickerson, co. engr.

Minn., Foley—Comrs. Benton Co. plan to grade and pave 19 mi. State Aid Rd., 18 ft. wide, involving 200,000 sq.yd. paving and 75,000 cu.yd. excav. About $475,000. I. L. Tierney, Foley, engr.

Minn., Grand Rapids—Comrs. Itasca Co. plan to grade and gravel 20 mi. road, 24 ft. wide involving 24,000 cu.yd. gravel surfacing and 100,000 cu.yd. excav. About $100,000. O. J. Lidberg, Grand Rapids, engr.

Minn., Hastings—Comrs. Dakota Co. plan to improve 18 mi. road, 24 ft. wide, involving 19,000 cu.yd. gravel surfacing and 90,000 cu.yd. excav., cost, $80,000; 7 mi. road, 20 ft. wide, 80,000 sq.yd. paving, and 40,000 cu.yd. excav., $196,000. C. L. Methren, Hastings, engr.

Minn., Jackson—Comrs. Jackson Co. plan to grade and gravel 20 mi. road, 24 ft. wide involving 120,000 cu.yd. excav. and 24,000 cu.yd. gravel surfacing. About $100,000. W. M. Richmond, Jackson, engr.

Minn., Lesueur Center—Comrs. Lesueur Co. plan to pave 7 mi. road, 18 ft. wide, involving 74,000 cu.yd. paving and 50,000 cu.yd. excav. About $180,000. R. F. Nichols, Lesueur Center, engr.

Minn., Litchfield—Comrs. Meeker Co. plan to grade and gravel 15 mi. road, 20 ft. wide, Project No. 40. About $60,000. R. P. McNamara, Litchfield, engr.

Minn., Little Falls—Comrs. Morrison Co. soon receive bids grading, surfacing and paving 52 mi. road. About $300,000. A. J Fenn, Little Falls, engr.

Minn., Long Prairie—Comrs. Todd Co. plan to grade and gravel 17 mi. road, 24 ft. wide, Project No. 26. About $20,000. A. N. Graves, co. engr.

Minn., Madison—Comrs. Lac Qui Parle Co. plan to grade and gravel 30 mi. Federal Aid Rd., 24 ft. wide. About $100,000. R. Frederik, Madison, engr.

Minn., Madison—Comrs. Lac Qui Parle Co. plan to improve 55 mi. road, 18 ft. wide, involving 66,000 cu.yd. gravel surfacing. About $100,000. R. Frederich, Madison, engr.

Minn., Mantorville—Comrs. Dodge Co. plan to grade and gravel 14 mi. road, 24 ft. wide, involving 11,000 cu.yd. surfacing and 80,000 cu.yd. excav. About $70,000. R. D. Jorgens, Hayfield, engr.

Minn., Marshall—Comrs. Lyon Co. plan to grade 20 mi. and gravel 30 mi. road, involving 140,000 cu.yd. excav. and 36,000 cu. yd. surfacing. About $120,000. D. W. Webster, Marshall, engr.

Minn., Montevideo—Comrs. Chippewa Co. plan to grade and surface 47 mi. road, 24 ft. wide, cost, $200,000; grade and gravel 4½ mi. road, 24 ft. wide, involving 1300 yd. excav. and 6000 yd. surfacing, $10,070. F. O. Nelson, Montevideo, engr.

Minn., Montevideo—Comrs. Chippewa Co. plan to grade and gravel 37 mi. State Aid Rd., 24 ft. wide, involving 44,000 cu.yd. gravel surfacing and 220,000 cu.yd. excav. About $200,000. F. O. Nelson, Montevideo, engr.

Streets and Roads (Continued)

Minn., Preston—Comrs. Fillmore Co. plan to grade and gravel 8 mi. road, 24 ft. wide. About $50,000. W. Dunbar, Preston, engr.

Minn., Redwood Falls—Comrs. Redwood Co. plan to build 4 mi. road, 24 ft. wide, involving 8635 yd. excav. About $35,096. H. Myron, Redwood Falls, engr.

Minn., St. Cloud—City receives bids in 3 weeks paving 25 blocks, 32-52 ft. wide. M. B. Lang, city engr.

Minn., St. Cloud—City having plans prepared by M. B. Lang, city engr., for 25 blocks paving.

Minn., St. Paul—Comrs. Ramsey Co. received no bids paving Como Ave. west from Snelling to Raymond Aves. About $99,227. Work will probably be re-advertised. Noted Mar. 27.

Minn., Stillwater—Comrs. Washington Co. plan to grade and gravel 5 mi. road, 24 ft. wide, Project No. 42. About $45,000. G. F. Barstow, co. engr.

Minn., Two Harbors—Comrs. Lake Co. plan to build 21 mi. hard surface road between Beaver Bay and Schrader. About $100,000. H. C. Hanson, Two Harbors, engr.

Minn., Wabasha—Comrs. Lake Co. plan to grade and gravel 22 mi. road, 24 ft. wide, Project No. 46. About $78,000. C. M. Mathias, co. engr.

Minn., Walker—Comrs. Cass Co. plan to grade and gravel 32 mi. road, 24 ft. wide, involving 38,000 cu.yd. grade surfacing and 160,000 cu.yd. excav. About $200,000. A. W. Moulster, Pine River, engr.

Minn., Warren—Comrs. Marshall Co. plan to improve 30 mi. road, involving 36,000 cu.yd. graveling surfacing. About $110,000. J. A. Lindsey, Warren, engr.

Minn., Willmar—Comrs. Kandiyohi Co. plan to pave 14 mi. road, 18 ft. wide, involving 148,000 cu.yd. paving. About $300,000. H. L. Wadell, Willmar, engr.

Minn., Winona—Comrs. Winona Co. plan to grade and gravel 9 mi. road, 24 ft. wide, Project No. 8. About $70,000. H. B. Childs, Winona, engr.

Minn., Worthington—Comrs. Nobles Co. plan to grade and gravel 16 mi. road, 24 ft. wide, Project No. 45. About $80,000. R. J. Boomer, co. engr.

Kan., Eldorado—City soon receives bids paving 25 blocks, asphalt and brick. About $100,000.

Kan., McPherson—Comrs. McPherson Co., plan to hard surface 112 mi. road.

Mont., Helena—City plans to pave and build retaining wall in alley west of Fuller St. between Placer Ave. and Lawrence St., also build new alley and retaining wall in alley from 7th to Helena Aves., east of Main St. About $11,000 and $13,500 respectively. J. D. McLeod, city engr.

Mont., Lewistown—City plans to grade, build sidewalks and curbs, etc., on 4th Ave. Boulevarding Dist. About $23,000. H. L. Fitton, city clk.

Arkansas—Comrs. Rd. Impvt. Dist. No. 1, at office of State Highway Comn., Little Rock, receive bids about May 1, building 37.18 mi. road, 22 ft. wide, 9 in. macadam surface, in Boone Co. About $175,000. Pritchett & Hight, Walnut Ridge, engrs.

Tex., Bastrop—Comrs. Bastrop Co., plan to build 30 mi. road in Elgin Precint, $250,000 available; 20 mi. road, McDade Precint, $35,000; various roads, Paige Precint, $35,000. Noted Apr. 3.

Tex., Bonham—Comrs. Fannin Co. receive bids about Apr. 15, building waterbound macadam road. About $165,000. M. A. Goode, co. engr.

Tex., Cameron—Milam Co. voted $35,000 bonds to build roads in Jones Prairie Dist. and $60,000 bonds for Marak Schoolhouse Dist.

Tex., Gilmer—City and Upsher Co. (Gilmer) plan election Apr. 26 to vote on $1,000,000 bonds to grade, gravel and pave roads.

Tex., Hillsboro—Hill Co. Itasco Dist. election April 25 to vote on $360,000 bonds to build hard-surfaced roads, No. 2.

Tex., Karnes—Karnes Co. election May 3 No. 2, election April 25 to vote on $360,000 bonds to build hard-surface roads.

Tex., Kingsville—Comrs. Kleberg Co. plan to build gravel type, bituminous surface road. About $350,000 available. Noted Apr. 3.

Tex., Olton—Lamb Co. voted $50,000 bonds to build highways in Rd. Dist. No. 1.

Tex., Woodville—Tyler Co. election Apr. 27, to vote on $800,000 bonds to build section of Hobby Highway No. 40.

Okla., Enid—City plans to pave and curb 28 streets with 8 in. concrete. About $11,000. B. F. Lewis, city engr.

Okla., Tulsa—City soon lets contract paving in Broadmoor Addition, asphalt. About $184,680. H. H. Wyss, city engr.

Colo., Pueblo—City plans to expend $93,000 to improve streets in South Main Dist. D. P. Gaymon, city engr.

Idaho, Twin Falls—Twin Falls Co. voted $1,250,000 bonds to pave 120 mi. and grade 100 mi. earth road. W. L. Johnson, Twin Falls, engr. Noted Feb. 13.

Wash., Spokane—City and Comrs. Spokane Co. soon receive bids grading and graveling Arterial Highway connecting city and Fort George Wright. About $50,000. County will build 2 mi. to cost $19,000.

Wash., Spokane—City had plans prepared grading and filling Trent Ave. between 2 Trent Ave. bridges. About $24,000. A. D. Butler, city engr.

Wash., Yakima—Yakima Co. election Apr. 26, to vote on $500,000 bonds to build 40 mi. hard surfaced road from Grandview to Yakima. Federal Government will appropriate $500,000 toward project.

Wash., Yakima—Comrs. Yakima Co. having plans prepared for grading and graveling feeder roads throughout county. About $75,000.

Ore., Dallas—City considering plans to lay several miles cement sidewalks and replace sewer pipes in Uglou Ave.

Ore., Klamath Falls—City had plans prepared improving Pine St., oil macadam, $19,177; cement pavement, $23,500; Canby St. bitulithic or concrete, $16,400; oil macadam or hard surface pavement, $10,925; 10th St., oil macadam, cement sidewalks, $18,697; cement pavement, $25,000.

Ore., Moro—Sherman Co. plans to improve 12 mi. Cottonwood Rd. from John Day bridge, thence past Monkland to intersection of main county road with Moro-Wasco Highway. About $50,000. M. L. Hoskinson, co. clk.

Ore., St. Helens—Columbia Co. soon lets contract for road work in Kappler Rd. Sta. 24-39, Rd. Dist. No. 3.

Cal., Brawley—City receives bids probably in May, grading, draining, curbing, guttering and paving 5 blocks Main St. and 4 blocks 8th St., 24 and 50 ft. wide, 7 in. concrete. Work may be done by force account. Noted Mar. 6.

Cal., Manteca—City plans election to vote on $31,500 bonds to pave streets to connect ends of county highways.

Quebec—Provincial Government, Quebec, plans to gravel 14,190 ft. road leading to C. N. R., in St. Barthelemi Parish, Berthier Co., 16 ft. wide, cost $13,271; 11,666 ft. road leading to Berthier, St. Cuthbert Parish, Berthier Co., 16 ft. wide, $17,774; 5.13 mi. roads St. Severe Parish, St. Maurice Co., 18 ft. wide, $42,243. A Lariviere, Parliament Bldgs., Quebec, engr.

BIDS DESIRED

R. I., East Providence—(Providence P. O.)—Until Apr. 15, by W. E. Smyth, town clk., building 4732 ft. granite or cement road with steel edge curbing and 22 corners.

R. I., Scituate (North Scituate P. O.)—See "Miscellaneous."

Conn., Hartford—Until Apr. 22, by Bd. Contr. & Supply, paving 2310 ft. Jewell, Trumbull, Wells and Morgan Sts., 40 ft. wide, involving 12,890 sq.yd. asphalt and 2097 cu.yd. concrete on 6 in. concrete base and 3480 cu.yd. excav.; also 1170 sq.yd. sheet asphalt resurfacing on existing concrete foundation, 3000 sq.yd. sheet asphalt on repairs and patching on other streets. C. M. Saville, city engr.

New York—Until Apr. 30, by State Highway Comn., Albany, building highways in following counties: Albany Co., 2 sections, 1.36 mi. and 4.10 mi.; Chemung Co., 40 mi.; Chenango Co., 3 sections, 4.78 mi., 5.57 mi., 5.87; Clinton Co., 3.34 mi.; Essex Co., 4.95 mi.; Fulton Co., 2.80 mi.; Hamilton Co., 6.82 mi.; Oneida Co., 2 sections, .97 mi. and 1.05 mi.; Onondaga Co., 5 sections, .96 mi., 7.45 mi., 2.37 mi., 1.76 mi., 3.75 mi.; Oswego Co., 5.44 mi.; Warren Co., 4.59 mi.; Wayne Co., 2 sections, 3.83 mi., 3.21 mi.; Westchester Co., 2 sections, 1.74 mi., 1.09 mi.; also reconstructing highway in Broome Co., and resurfacing highways in Hamilton, Jefferson, Onondaga and Oswego Counties. E. Duffey, comr.; advertised in this issue.

N. Y., Cohoes—Until Apr. 17, by city, paving Manor Ave. from intersection of North Mohawk St. to city line, brick, bitulithic, tarvia or concrete. E. M. Herbert, secy.; advertised in this issue.

N. Y., New York—Until Apr. 15, by F. L. Dowling, pres. Manhattan Boro., regulating and repaving with granite block on concrete foundation Park Pl. roadway from Bway to West Bway; Beekman St. roadway from Nassau to William Sts.; roadway west of 155th St. from point 140 ft. west of Washington Heights line of Bway and Riverside Dr.; roadway of West 155th St. from Bway. to point 140 ft. west of Washington Heights Line of Bway., sheet asphalt on concrete foundation.

N. Y., S. I., St. George—Until Apr. 18, by C. D. Van Name, pres. Richmond Boro., regulating and repaving with concrete and granite block Richmond Pike roadway from Clove Lakes to Manor Rd., involving 4150 sq. yd. granite block, with cement grout joints complete, etc.

N. Y., S. I., St. George—Until Apr. 18, by C. D. Van Name, pres. Richmond Boro., building and repairing sidewalks on both sides of De Hart Ave. from Richmond Terrace to Walloon St.; on north side of Richmond Terrace between fence line and curb line, from Lake to Van Pelt Aves. and north side of Clifton Ave. between Anderson St. and Staten Island Rapid Transit R. R. tracks. Work involves 9830 sq. ft. concrete sidewalk, 100 sq. ft. special concrete sidewalk over driveways, etc.

N. J., Belleville—Until Apr. 22, by Town Bd. Comrs. furnishing labor and material grading, flagging, curbing and guttering streets and building sidewalks as per plans. F. I. Shepard, 601 Essex Bldg., Newark, engr.

N. J., Moorestown—Until May 7, by Bd. Freeholders Burlington Co. (Mt. Holly), rebuilding Main St., Chester Twp. Work involves 34,051 sq.yd. sheet asphalt pavement on concrete foundation. H. Hawkins, Jr., clk.; advertised in this issue.

N. J., Newark—Until Apr. 14, by city, furnishing labor and material for paving 2300 sq.yd. with 2 in. bitulithic pavement on 6 in. concrete foundation, 5000 lin ft. 5-16 in. 4 cut blue-stone curbing and nine 4 in. sewer connections, complete with iron marker.

N. J., Salem—Until Apr. 22, by Bd. Freeholders Salem Co., building 27,804 sq.yd., Sect. 7, Malaga-Penn Grove Rd., Pennsgrove Boro., Upper Penns Neck Twp., bituminous dressing (sheet asphalt), on macadam foundation. I. C. Smashey, clk.

N. J., West Orange—Until Apr. 15, by town, grading, laying concrete curb and paving with bituminous paving, Maple St. from Franklin Ave. to Valley Way. Work involves 4586 lin.ft. concrete curbing and 7619 sq.yd. bituminous concrete. C. A. Winston, Town Hall, engr.

Pennsylvania—Until May 2, by State Highway Comn., Harrisburg, building roads in counties, as follows:

Blair Co., 5443 ft. rein. con., Route 53, Duncansville Boro.

Cambria Co., 16,177 ft. vitr. brick, Route 53-276, Allegheny Twp.

Centre Co., 32,100 ft. bituminous on concrete foundation and hillside vitr. brick, Route 27, Spring Twp.

Chester Co., 21,626 ft. rein. con., Route 147, West Goshen and West Whiteland Twps.; 2334 ft. rein. con., Route 131, Kennett Sq. Boro.

Clarion Co., 1842 ft. vitr. brick, Route 65, Clarion Boro; 26,648 ft. rein. con. and Hillside vitr. brick, Route 65, Paint and Elk Twps.

Juanita Co., 8414 ft. rein. con. and Hillside vitr. brick, Route 31, Walker and Fermanagh Twps.

Luzerne Co., 22,452 ft. bituminous surface on concrete foundation, Route 4, Salem Twp.; 10,560 ft. rein.-con., Route 4, Union Twp.

Berks-Schuylkill Counties, 40,004 ft. rein. con. and Hillside vitr. brick, Route 141, Windsor and West Brunswick Twps.

Tioga Co., 26,310 ft. rein. con., Route 21, Charleston and Richmond Twps.

Streets and Roads (Continued)

Warren Co., 10,717 ft. rein. con., Route 88, Broken Straw Twp. L. S. Sadler, state highway comr.; advertised in this issue.

Pa., Dormont—Until Apr. 24, by boro., paving and curbing Crosby, Montpelier, Glenmore, Dormont, Delwood and East Montpelier Sts.; also grading and building sewers on Ocean Ave. About $75,000. Douglass & McKnight, Columbia Bank Bldg., Pittsburgh, boro. engrs.

Pa., Ebensburg—Until Apr. 25, by Comrs. Cambria Co., building 2.65 mi. Geistown-Elton Rd., Richland Twp., 16 ft. vitr. brick or rein.-con. roadway on concrete base and curb. F. T. Jones, controller.

Maryland—Until Apr. 22, by F. H. Zouck, chn. state rds. comn., Garret Bldg., Baltimore, building 2.01 mi. Littlestown Pike, concrete, from town limits of Westminister toward Union Hills, Carroll Co., Contr. C1-20; 3.51 mi. State Highway, concrete, from Knoxville to Harpers Ferry, Frederick and Washington Counties, Contr. W-16 A; 2.51 mi. Clarksville Pike, concrete, from Highland to Clarksville, Howard Co., Contr. H0-12; 3.03 mi. Rock Hall to Swan Creek Rd., concrete, near Edesville, Kent Co., Contr. K-12; advertised in this issue.

Md., Baltimore—Until Apr. 23, by Bd. Awards, City Hall, grading, curbing and paving Hughes St. from Sharp to Light Sts., old granite block with cement filler on 6 in. concrete base, Contr. 161; Carlton St. from Franklin St. to Harlem Ave., Rice St. from Carrollton to Fremont Aves., Stockton St. from Franklin St. to Lafayette Ave., and Woodyear St. from Franklin St. to a point north of Lanvale St., cement concrete, Contr. 162; Lovegrove Alley from Elizabeth Court to Franklin St., and from Hamilton Alley to Centre St., N. Alley from Lovegrove Alley to St. Paul St., Wise Alley from Little Sharp St. to Crooked Lane, and Wyoming Alley from Little Sharp St. to Crooked Lane, Contr. 163. R. K. Compton, 214 East Lexington Ave., ch. engr.

N. C., Rutherfordton—Until Apr. 25, by city, for granite and cement curbing, 10,000 sq.yd. concrete street paving and 1000 sq.yd. sidewalk paving. R. L. Greenlee, engr.

Ga., Savannah—Until Apr. 18, (change of date) by Comrs. Chatham Co., furnishing labor and material and building, draining and paving various public roads of county; advertised in this issue. Noted Apr. 3.

Louisiana—Until Apr. 14, by D. Buie, state highway engr., 736 Maison Blanche Bldg., New Orleans, building 15 mi. Orleans-Chef Menteur Highway, waterbound macadam.

Ohio—Until Apr. 17, by State Highway Comn., Columbus, paving, grading, draining, and building bridges on 4.18 mi. Sect. "I," Columbus-Millersburg Rd., waterbound macadam. About $46,057.

Ohio—Until April 10, by State Highway Comn., Columbus, grading, constructing bridges and culverts and paving with monolithic brick 7.71 mi. Cleveland-Buffalo Rd., Sect. "J," Lake Co., cost $281,082; same work on 5.43 mi. Sect. "Q," cost $195,878.

O., Akron—Until Apr. 16, by Coventry Land & Impvt. Co. 1115 South Main St., grading certain streets and lots in Firestone Park, 8000 to 10,000 ft. long, 45 ft. wide, involving 50,000 cu.yd. earth cut excav. A. B. Murphy, 1115 South Main St., engr.

O., Akron—Until Apr. 30, by H. S. Morse, dir. pub. serv. for repaving and building sewer in South Main St. from Thornton to Crosier Sts. Work involves removal of 6670 sq.yd. old pavement and concrete base, and 4500 sq.yd. of pavement only, laying 6670 sq.yd. concrete base, 11,175 sq.yd. stone block or brick pavement, 910 lin.ft. of 30-36 in. trunk sewer, 1680 lin.ft. 8-24 in. vitr. pipe sewer, 4800 lin.ft. 4 in. sub-drain, 13 manholes and 21 street inlets; advertised in this issue.

O., Toledo—Until Apr. 22, by city, tearing up existing stone block pavement, resetting curb and paving 5132 ft. Adams St., from Summit St. to Ashland Ave., 40 ft. wide, involving 14,345 sq.yd. vitr. brick, granite, or wood block, on 7 in. concrete base, cost $130,000; 1494 ft. Burnham Ave. from Sylvania to Maple Aves., 24 ft. wide, 4300 sq.yd. vitr. brick, asphalt block, concrete or bituminous concrete on 6 in. concrete base, 3000 lin.ft. curbing, 2345 cu. yd. earth excav., $22,815. H. C. McClure, 229 Valentine Bldg., engr.

Michigan—Until Apr. 15, by F. F. Roger, comr., state highway, Lansing, improving 3 mi. Federal Aid Project No. 18, Acme Twp., Grand Traverse Co., 15 ft. wide.

Mich., Port Huron—Until Apr. 14, by L. C. Elliott, city clk., grading and paving with brick or concrete, side drains, catch basins, sewer connections, etc., Pine St., from Military to 13th Sts., cost $35,000; alleys in block No. 58, White Plat, $2100; Stone St. from State to Garfield Sts., $31,000; Crescent Pl. from Water to 10th Sts., $7500; Jenkinson St. from Military to 7th Sts., $2000; 4th St. from Water to Wall Sts. and from Union to Griswold Sts., $15,000. E. R. Whitmore, city engr. Noted Apr. 3.

Ill., Danville—Until May 1, by J. R. Moore, clk. Vermilion Co., building concrete and brick roads, 10 ft. wide with 3 ft. macadam on gravel shoulders, together with all grading, draining, shaping, rein.-con. work etc. Former bids rejected; advertised in this issue. Noted Mar. 20.

Wis., Plymouth—Until May 15, by city, paving, curbing and guttering Milwaukee St. from Mill to Main Sts., and Reed St. from South to Vein Sts., 20 ft. wide concrete. About $35,000. W. O. Kerchoffer, Madison, engr. Noted Feb. 20.

Minn., Wadena—Until Apr. 21, by Comrs. Wadena Co., grading and graveling State Rd. No. 6, Job No. 1907, involving 6595 cu.yd earth excav.; Job No. 1906, 29 ft. slab span, rein.-con. abutment and slab, involving 4280 lbs. steel and 76 cu.yd. concrete; State Rd. No. 1, Job No. 1908, 6221 cu.yd. excav.; Job No. 1905, one 6 x 8 x 27 ft., rein.-con. abutment involving 3496 cu.yd. concrete; State Rd. No. 4, Job No. 1903, 4800 lin.ft. graveling and one 4 x 8 x 24 ft. rein.-con. culvert, involving 1761 lbs. steel; Job No. 1902, 2101 cu.yd. clay surfacing, 224 ft. culverts and 12,247 cu.yd. excav.; State Rd. No. 7, Job. No. 1908, 744 cu.yd. surfacing and 5668 cu.yd. excav. E. Ward, Wadena, engr.

Minn., Worthington—Until Apr. 14, by Comrs. Nobles Co., grading and surfacing 12½ mi. Job No. 1901. About $24,000. R. J. Boomer, Worthington, engr.

Minn., Worthington—Until May 5, by Comrs. Nobles Co. paving 2 mi. Job No. 1902, concrete, cost, $40,000; 3½ mi. Job No. 1903, $70,000; 19 mi. Job No. 1904, $95,000; 10 mi. Job No. 1905, $20,000. R. J. Boomer, Worthington, engr.

Neb., Lincoln—Until Apr. 19, by city, paving Starr and D. Sts. Work involves 7600 yd. asphaltic concrete on 5 in. base, 5800 ft. concrete curb and gutter and 1000 yd. excav. About $23,700. A Dobson, city engr.

S. D., Salem—Until Apr. 18, by City Aud., paving 15,000 sq.yd. Main St., 1 or 2 course concrete. Dakota Eng. Co., Mitchell, engrs.

North Dakota—Until May 5, by State Highway Comn., Bismarck, building Federal Aid Project No. 10, Traill Co., involving 24.87 mi., grading and culverts. About $29,162.

Arkansas—Until Apr. 15, by Comrs. Woodruff Prairie Impvt. Dist. No. 6 at office of State Highway Comn., Little Rock, building 21 mi. waterbound macadam road, asphalt carpet treatment, 14 ft. wide, in District. Work involves 125 acres clearing and grubbing, 1434 cu.yd. concrete, 640 lin.ft. corrugated pipe, 116,500 cu.yd. grading, 52,900 cu.yd. stone and 33,314 cu.yd. sand. E. E. Washburn, Cotton Plant, engr.

Oregon—Until Apr. 15 by State Highway Comn., Portland, improving roads in following counties:

Baker Co., 18.75 mi. Baker-Middle Bridge Rd., Post Rd. Project, involving 78,000 cu. yd. excav., 3500 cu. yd. gravel surfacing.

Columbia Co., 14.2 mi., Scapposse-Deer Island Rd., 70,000 cu. yd. excav., 20 mi. Deer Island-Ranier Rd.

Coos Co., 14 mi. Marshfield-Coquille Rd.

Douglas Co., 10.4 mi. Yoncalla Rd., 13 mi. Myrtle Creek-Dillard Rd., 30,000 cu. yd. excav., removal of slide.

Jackson Co., 8.9 mi. Central Pt.-Gold Hill Rd.

Josephine Co., 4.9 mi. Wolf Creek-Grave Creek Rd., 4.5 mi. Stage Rd. Pass-Wolf Creek Rd., 38,000 cu.yd. excav.

Lane Co., 3 mi. Walker-Cottage Grove Rd., 23,000 cu. yd. excav., 1 mi. Divide-Douglas Co. line, 9500 cu. yd. excav.

Marion Co., 7 mi. North Jefferson Rd.

Polk Co., 8.3 mi. Rickreall-Monmouth-Independence Rd.

Tillamook Co., 5 mi. Hemlock-Beaver Rd.

Yamhill Co., 8 mi. McMinnville-Sheridan Rd., Yamhill and Polk Counties, 8.3 mi. Amity-Holmes Gap Crossing.

Cal., Merced—Until May 19, by J. D. Wood, city clk., grading 4½ blocks K St., 4 in. concrete pavement with ½ in. asphalt and rock screenings surface, c.i. and concrete culverts, also paving alley in block B with 4 in. concrete. C. D. Martin, city engr.

Ont., Strathroy—Until Apr. 19, [illegible] F. W. Atkinson, town clk., building 10,800 ft. concrete, asphaltic concrete or bitulithic pavement on Frank, Front and Caradoc Sts., 28-40 ft. wide. About $50,000. James Loudon & Hertzberg, Excelsior Life Bldg., Toronto, consult. engrs. Noted Mar. 27.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—Comr. Pub. Wks. let contracts paving Mascot St., Dorchester Twp., involving 264 lin.ft. stone curbing and guttering, 2260 sq.ft. concrete sidewalk 400 sq.yd. bituminous macadam, and 300 cu.yd. earth excav., to M. De Matteo, 154 Dudley St., Roslindale, $4412; 2700 ft. Newbury St., 40 ft. wide 5900 lin.ft. stone curbing, 65,600 sq.yd. concrete sidewalk and 12,300 sq.yd. asphalt on 7 in. concrete base, to Warren Bros., Berkeley St., $42,733; Marble, Sterling, Warwick and Westminister Sts., 40-60 ft. wide, 7904 lin.ft. stone curbing, 56,554 sq.ft. concrete sidewalk and 18,825 Topeka asphalt on 6 in. concrete base, to Central Constr. Co., School St., $76,664.

★**Rhode Island**—State Bd. Pub. Rds., State House, Providence, let contract rebuilding 1.15 mi. Boston Neck Rd., 18 ft. wide, Narragansett Twp., to B. Perini, Ashland, Mass., $23,902. Noted Mar. 27.

Rhode Island—State Bd. Pub. Wks., Providence, received bids Apr. 2, building 2.24 mi. State Rd. in Smithfield and Gloucester Twps., 18 ft. wide, from T. F. Quinn, Ashton, $66,000; R. H. Newell & Sons, Uxbridge, Mass., $82,854; J. McCormick, East Providence, $84,522. Noted Mar. 27.

★**Conn., New Britain**— City let contracts for (a) concrete sidewalks; (b) concrete gutters; (c) concrete curbs; (d) curbs and gutters combined, to Nicola-Bellini, 48 Franklin St., (a) 22c. per sq.ft., (b) 32c. per sq.ft.; (c) 62c. per sq.ft.; (d) $1.45 per lin.ft.

★**New York**—E. Duffy, comr. state highway dept., 55 Lancaster St., Albany, let contracts repairing roads in following counties:

(a) Albany Co., River Rd., Contr. No. 1189;

(b) Broome Co., Fenton-Chenango-Loupath Rd., Contr. No. 1200;

(c) Delaware Co., Delhi-Middletown Rd., Contr. No. 1202;

(d) Erie Co., Akron-Tonawanda Creek Rd., Contr. No. 1186;

(e) Erie Co., Transit Rd., Part 2, Contr. No. 1199;

(f) Genesee Co., East Pembroke-Batavia Rd., Contr. No. 1188;

(g) Herkimer Co., Manheim Center-Salisbury Center Rd., Salisbury Center Burrells Rd., Burrells-Middleville Rd., Little Falls-Fairfield Rd., Richfield Springs-Warren-Springfield Rd., Little Falls-Montgomery Co. line Rd., Ilion-Cedarville Rd., Jordanville-Richfield Springs Rd., Mohawk-Paines Hollow Rd., Paines Hollow-Jordanville Rd., Contr. No. 1198;

(h) Monroe Co., Latta Rd., Contr. No. 1191;

(i) Monroe Co., Clifton Rd., Parts 1 and 2, Chili Rd., Part 2, Honeoye Falls-Rush Rd., West Henrietta-Valley Park Rd., Contr. No. 1196;

(j) Oneida Co., Utica-Bridgewater Rd., Contr. No. 1197;

(k) Onondaga Co., Baldwinsville-Cicero Rd., Contr. No. 1175;

(l) Onondaga Co., Cemetery Rd., Contr. No. 1176;

(m) Onondaga Co., Phoenix Syracuse Rd., Contr. No. 1177;

(n) Onondaga Co., Marietta-Marcellus Rd., Contr. No. 1178;

(o) Saratoga Co., Ballston-Ballston Lake Rd., Part 2, Contr. No. 1185, to L. Maversohn, 175 Warren St., Albany, (a) $28,867;

Edgecomb Bros., Inc., Binghamton, (b) $41,699;

Kent Constr. Co., Inc., Albany, (c) $49,315;

Dale Eng. Co., Mann Bldg., Utica (d) $55,632;

Wing & Munger, Holley, (e) $48,015;

Ribstein-Holter Co., Inc., 16 State St., Rochester, (f) $49,625;

Pathfinder Constr. Co., Fulton, (g) $32,527;

G. W. Chambers, Powers Bldg., Rochester, (h) $24,220;

J. J. Crouch, Rochester, (i) $7453;

H. W. Roberts Co., 610 Lansing St., Utica, (j) $36,645; (n) $29,375;

G. B. Dickison, Union Bldg., Syracuse, (k) $15,686; (l) $9844;

Brayer Bros., Pearson Blk., Auburn, (m) $49,741;

J. B. Dower, Ballston Spa, (o) $74,800. Noted Mar. 13.

Streets and Roads (Continued)

★**New York**—State Highway Dept., 55 Lancaster St., Albany, let contracts improving roads in following counties:
(a) Allegany Co., Cuba-Friendship and Wellsville-Andover Rds., Contr. No. 1205;
(b) Cayuga Co., Cato-Meridian-Baldwinsville Rd., Contr. No. 1174;
(c) Fulton and Montgomery Counties, Gloversville-Meco-Phelps Rd., Old Plank Rd. Mayfield-Northville Rd., Part 2, Gloversville-West Perth Rd., Fultonville-Glen Rd., Glen-Charleston Rd. and Akin-Johnstown Rd., Part 1, Contr. No. 1194;
(d) Livingston Co., Kuders Corners-Springwater Town Line Rd., Livonia-Conesus Town Line Rd. and Nunda-Dalton Rd., Contr. No. 1195;
(e) Livingston Co., Mt. Morris-Genesee Rd. and Mt. Morris Village Rd., Contr. No. 1206;
(f) Livingston and Ontario Counties, Dansville-Mt. Morris Rd., Part 6, Geneva-Halls Corners Rd., Stanley-Geneva Rd., Wayland-Dansville Rd., Part 2, County Line-Dansville Rd., Cohocton-Naples Rd., Part 2 and Craig Colony Rd., Contr. No. 1192;
(g) Monroe and Orleans Counties, Five Corners-Kuckville Rd., Part 2, Clarendon-Holley Rd., Part 1, County Line Rd., Holley-Ridge Rd., Monroe-Orleans County Line Rd., Contr. No. 1193;
(h) Ontario Co., Victor-Mendon Rd., Part 1, and Canandaigua-Victor Rd., Contr. No. 1203;
(i) Otsego Co., Morris-Gilbertsville Rd., Part 2, and Gilbertsville Village Rd., Contr. No. 1172;
(j) Schenectady Co., Contr. No. 1184;
(k) Schuyler, Tioga and Tompkins Counties, Ithaca-Dryden Rd., Part 2, Newark Valley-Berkshire Rd., Part 2, Newark Valley-Berkshire Rd., Part 1, Spencer-Candor Rd., Part 2, Enfield Falls-Enfield Center Rd., Montour Falls-Alpine Rd., Part 1, Alpine-Cayuta Rd., Part 1, Mecklenburg-Perry City Rd., Ithaca-Esty Glen Rd., Waverly-Owego Rd., Part 2, Ithaca-Danby Rd., Part 3, Cayuta-Newfield Rd., Perry City-Trumansburg Rd., Contr. No. 1204;
(l) Steuben Co., Big Creek Rd., Parts 1 and 2, Contr. No. 1179;
(m) Steuben Co., Wayland-Dansville Rd., Part 1, Contr. No. 1180;
(n) Steuben Co., Bath-Hammondsport Rd., Part 1, Contr. No. 1181;
(o) Sullivan Co., Jeffersonville-Kenoza Lake-Fosterdale Rd., Contr. No. 1173;
(p) Ulster Co., Kingston-Ellenville Rd., Part 3, Contr. No. 1190, to McGreevey, McGuigan & Baum, Robinson Bldg., Elmira, (a) $25,781; (m) $29,638; (n) $37,971;
Brayer Bros., Pearson Blk., Auburn, (b) $35,558;
J. P. Dugan & Co., Inc., 32 James St., Amsterdam, (c) $15,240;
J. J. Crouch, Rochester, (d) $6170; (f) $7857; (g) $7736;
R. W. Corp., East Belle Isle Yard, Syracuse, (e) $44,647; (i) $35,045;
P. H. Murray, Cutler Bldg., Rochester, (h) $44,900; (l) $40,933;
J. J. Malloy, Schnectady, (j) $46,808;
W. Hazard, Ithaca, (k) $21,732;
S. B. Van Wagenen, Inc., Rondout, (o) $42,525; (p) $37,228. Noted Mar. 13.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., received lowest 3 bids regulating and grading sidewalk and gutter spaces, laying sidewalks, etc., (a) on Barclay St.; (b) Delaware Ave.; (c) 153rd St.; (d) Gates Ave.; (e) repairing sheet asphalt pavement in 1st and 2nd Wards, from R. A. Hess, Inc., (a) $598; (b) $300; (c) $1444; (d) $1230; Scott & Kurth, (a) $612; (b) $270; Peace Bros., 20 Main St., Flushing, (a) $644; (b) $370; (c) $1596; (d) $1275; Sicilian Asphalt Paving Co., Paidge Ave., (e) $13,325; Uvalde Asphalt Paving Co., Metropolitan Ave., (e) $14,612; Borough Asphalt Paving Co., 1301 Metropolitan Ave., (e) $14,481; T. F. Tuohy, 98 Main St., (b) $333, (c) $1573; T. Welsh, (d) $1072; C. A. Meyers, foot Stagg St., (d) $1010. Noted Mar. 27.

★**N. Y., New York**—H. Bruckner, pres. Bronx Boro., let contract building transverse road, regulating, grading, regrading, etc., paving and repaving East 161st St., Grant, Sherman and Walton Aves., granite block and sheet asphalt on concrete foundation, to F. Schneider, Westchester Ave. and Bronx River Rd., $638,327. Noted Apr. 3.

★**N. Y., Rochester**—City let contract paving Sect. 2 of City Blvd. from Brooks to Chili Aves., to Whitmore, Rauber & Vicinus, 279 South Ave. About $102,000.

★**N. J., Newark**—Bd. Freeholders Essex Co. let contract resurfacing with 2 in. Warrenite pavement, Watchung Ave. from Upper Mt. Ave., Montclair, through Glen Ridge to East Passaic Ave., Bloomfield, 13,200 ft. long, 20 ft. wide, to Osborne & Marsellis Co., Belvue Ave., Upper Montclair, $80,900. Noted Mar. 27.

★**N. J., Newark**—Dept. Streets & Pub. Impvts. let contract to Newark Paving Co., 133 1st St., paving with granite block, Wilson Ave. from Hyatt St. to Newark Bay, cost, $34,800; paving with new granite South Orange Ave. from Springfield Ave. to South 9th St., $127,841; Clinton Ave. from Pennsylvania R.R. to Chadwick Ave., $26,761; repaving with reclipped granite Springfield Ave. from Morris Ave to city line, $109,405. Noted Mar. 27.

Pa., Pittsburgh—Allegheny Co. received bids Apr. 1, grading, paving and improving 12,500 ft. Round Hill Rd., 20 ft. wide, in Forward Twp., from McLaughlin Contg. Co., Citizens Bank Bldg., $73,743; A. G. Rothey, R. F. D., Elizabeth, $75,191; A. Ancaroni, Portview, $93,704. Work involves 22,300 sq.yd. waterbound macadam and 23,020 sq.yd. Telford foundation, 8 in. thick. Noted Mar. 13.

Pa., Pittsburgh—J. P. Moore, co. controller Allegheny Co., received bids Mar. 25, widening and rebuilding 3400 ft. Brackenbridge Rd., (a) concrete (b) asphaltic concrete, from Martin Constr. Co., 1st Natl. Bank Bldg., (a) $47,175; McPherson Bros., 421 Chestnut St., (a) $58,563, (b) $53,823; M. O. Herron, 1st and McKean Sts., (a) $58,229; T. Cronin, 17th and Muriel Sts., (b) $58,742; Booth & Flynn, Forbes St., (b) $57,962. Noted Mar. 13.

★**Md., Baltimore**—Bd. Awards let contract paving Fairmount Ave., Lexington and St. Matthew Sts., sheet asphalt on concrete base, vitr. block and redressed granite block; Franklin St. from Howard to Charles Sts. and St. Paul St. from Lexington to Hamilton Sts., to P. Flannigan & Sons, Harford Rd. and Baltimore & Ohio R.R., $69,602 and $42,528 respectively; Pratt, Fayette, McHenry, Cole, Eagle and Bentalou Sts., to Baltimore Asphalt Block and Tile Co., Monroe and Morman Sts., $144,704. Noted Mar. 20.

★**Va., Bristol**—C. P. Moore, street comr., let contract paving 25,000 yd. State St. between 10th St. and Pennsylvania Ave., asphalt on concrete base, to Municipal Paving Co., Johnson City, Tenn., $2.61 per yd. Noted Feb. 27.

★**W. Va., Parsons**—Comrs. Tucker Co. let contract grading ½ mi. Parsons Hendricks Co., State Aid Project No. 25., 26 ft. wide, to J. B. Funkhouser, Hambleton. About $15,300. Work involves 9000 cu.yd. grading, 5000 cu.yd. rock excav. and 50 cu.yd. concrete in culvert.

★**N. C., Durham**—City let contract paving 30,000 sq.yd. Main St., from Fuller St. to Allston Ave., to R. G. Lassiter, Oxford, $229,904. Noted Mar. 20.

★**N. C., Mount Olive**—City let contract improving 25,000 sq.yd. various streets, to R. G. Lassiter & Co., Raleigh, $167,000. Noted Mar. 13.

Fla., Jacksonville—Duval Co. received bids paving 6500 sq.yd. Atlantic Blvd. from Kings Rd. to Hendrix Ave., 1 course concrete with vibrolithic method, from F. W. Long Co., 434 East Bay St., $3.12 per sq.yd.; Dawkins Constr. Co., $2.88 per sq.yd. Noted Apr. 3.

★**Fla., Moore Haven**—City let contract paving various streets and installing sewers in same, to Freelund Constr. Co., 8th St. About $30,000 available. Noted Jan. 2.

★**Ala., Tuscumbia**—Comrs. Colbert Co., let contract graveling 7⅞ mi. Jackson Highway. State Rd. No. 8, to Mitchell Bros., Oneonta. About $30,236. Noted Mar. 6.

★**Miss., Charleston**—Comrs. Tallahatchie Co. let contract graveling and surfacing 21.5 mi. road with bituminous material, to Newell Constr. Co., 2209 1st Ave., Birmingham, Ala. About $79,235. Noted Feb. 20.

La., Shreveport—Caddo Parish received lowest bid improving 9.11 mi. Vivian Arkansas Highway, from Vivian, northerly through Myrtis and Rodessa to Louisiana Arkansas state line, from A. D. Lambert. Noted Oct. 3.

★**Ohio**—State Highway Comn, Columbus, let contracts building roads as follows:
Columbiana Co., Sect. "Q" Cleveland-East Liverpool Rd., 98 mi., grading, constructing bridges and culverts and paving with concrete, Campbell Bros. Co., 609 Slambaugh Bldg., Youngstown, $35,935.
Hancock Co., Sect. "G," Findlay-Kenton Rd., 2.01 mi., grading, constructing bridges and culverts and paving with asphaltic concrete, Johnston Constr. Co., 418 South Clinton St., Chicago, $56,976.
Knox Co., Sect. "M," Columbus-Wooster Rd., 4.02 mi., grading, constructing bridges and culverts and paving with rein. con., H. P. Streicher Co., 319 Terminal Bldg., Toledo, $164,314.
Montgomery Co., Sect. "O-1" Cincinnati-Dayton Rd., 1.92 mi., grading, constructing bridges and culverts and paving with rein. con., Bigler Bros., Middletown, $58,140.
Sect. "O-2," Cincinnati-Dayton Rd., 1.34 mi., grading, constructing bridges and culverts and paving with rein. con., Williams & Little Co., 11810 Saywell St., Cleveland, $46,559.
Wayne Co., Sect. "E," Cleveland-Wooster Rd., 5 mi., grading, constructing bridges and culverts and paving with monolithic brick, Lee, Griggs & Anderson, Millersburg, $143,825.
Sect. "A," Ashland-Wooster Rd., 6.72 mi., grading, constructing bridges and culverts and paving with monolithic brick, Walter S. Newhall Co., Citizens Bldg., Cleveland, $203,221.
Sect. "M-1," Mansfield-Wooster Rd., 1.23 mi., grading, constructing bridges and culverts and paving with monolithic brick, D. A. Phillips & Son, Ashland, $33,301. Noted Apr. 3.

★**O., Cleveland**—City let contract paving (1) East 143rd St. from Lake Shore Blvd. to Westrop Ave.; (2) East 143rd St. from Westrop to Sylvia Aves.; (3) Aetna Rd. from East 103rd St. to point westerly; (4) Aetna Rd. from East 93rd St. to Erie R.R.; (5) Woodside Ave. from Eddy Rd. to point easterly; (9) Eliot Ave. from East 102nd to East 104th Sts.; (7) East 103rd St. from Union to Eliot Aves.; (8) East 104th St. from Union Ave. to Aetna Rd.; (9) East 102nd St. from Empire to Yale Aves.; (10) East 102nd St. from Kempton to Adams Sts.; (11) East 102nd St. from Empire to Kempton Aves.; (12) East 103rd St. from Union Ave. to Aetna Rd.; (13) Roehl Ave. from Fulton Rd. to West 33rd St., to Gould & Maybach, 823 East 150th St., (1) $14,415, (2) $10,147; Enterprise Paving Co., 8436 Bway. Ave., (3) $10,174, (4) $23,260; Cleveland Trinidad Paving Co., 3409 Trumbull Ave., (5) $30,110; A. M. Pejsa, 2359 East 93rd St., (6) $11,537, (7) $17,792, (8) $25,218; McHugh Bros., 527 Society Savings Bank Bldg., (9) $2000, (10) $2731, (11) $14,005; Baldwin Bros., 823 East 150th St., (12) $27,369; Roehl Bros., Clark and West 25th St., (13) $9210. Noted Apr. 3.

★**O., Cleveland**—City let contracts improving, (1) sidewalks in northerly section; (2) westerly section; (3) southerly section; (4) Altoona Rd. from Pearl Ave. to West 32nd St.; (5) East 128th St. from Penobscot to St. Clair Aves.; (6) Bway. Ave. from East 34th St. to point west; (7) westerly section; (8) northerly section; (9) southerly section, to Ohio Quarries Co., Citizens Bldg., (1) $12,638, (2) $11,209, (3) $15,273; Roehl Bros., West 25th St. and Clark Ave., (4) $9920; Gould & Maybach, 823 East 150th St., (5) $10,843; R. P. Burnett, Society Savings Bank Bldg., (6) $39,324; Schmeller-Franz, (7) $7682, (9) $6742; P. De Santis, (8) $9856. Noted Mar. 20.

O., Perrysburg—City received bids paving 1 mi. 5th St., 26 ft. wide, curbs, from Federal Asphalt Paving Co., 316 Rentschler Bldg., Hamilton, oil asphalt, concrete, $55,067; trinidad asphalt concrete curbs, $56,977, P. W. Breisach, Perrysburg, concrete, $56,955. Noted Mar. 27.

★**O., Toledo**—Lucas Co. let contract building 1.2 mi. Upton Ave., 16 ft. wide, to Warner & McKechnie, 320 Nasby Bldg., $34,327; 2 mi. Sylvania Ave., 16 ft., to R. A. Garrigan, 434 Valentine Bldg., $45,993; 1550 ft. Central Grove Ave., 27 ft. wide, to Harris & Tansey, 221 Nasby Bldg., $15,066; 1 mi. road 16 ft. wide, to Peter Bros., 237 Marion St., $34,228; 1.63 mi. Stickney Ave., 14 ft. wide, to A. M. Doan, 437 Spitzer Bldg., $22,660; 3.2 mi. Grace Rd., 10 ft. wide, to J. E. Coon, Swanton, $33,271; 3.56 mi. Dorr St., 18 ft. wide, to T. P. Garrigan Co., 129 St. Clair St., $96,602. Noted Apr. 3.

★**Mich., Detroit**—Dept. Pub. Wks. let contracts paving and grading with 1 course concrete, alley, (a) No. 967; (b) No. 968; (c) No. 969; (d) No. 970; (e) No. 971; (f) No. 972; (g) No. 973; (h) No. 974; (i) No. 975; (j) No. 976; (k) No. 977; (l) No. 978, to T. E. Currie, 20 McGraw Bldg., (a) $6295; R. J. Powelson Co., 1577 Iroquois Ave., (b) $5569; Lennane & McIlvenna, Union Trust Bldg., (c) $4974; (e) $2272; (k) $2848; Otis Cement Constr. Co., 806 Hammond Bldg., (d) $3388; (e) $3234; Oakwood Constr. Co. Ford St. and Wabash R.R., (f) $1756; (j) $3867; Talbot Co., Penobscot Bldg., (g) $1199; (h) $5090; Liberty Constr. Co., Penobscot Bldg., (i) $4696. Noted Apr. 3.

Streets and Roads (Continued)

★**Mich., Grand Rapids**—Comrs. Kent Co. let contract building 2 mi. Kalamazoo Ave. from red schoolhouse, south, concrete, to C. M. Blakeslee, Grand Haven, $40,335.

★**Wis., Appleton**—Comrs. Outagamie Co. let contract grading, draining and surfacing with concrete 2 mi. Black Creek Appleton Rd., 16 ft. wide, to Garvey & Weyenberg, 812 College St., cost, $48,102; grading and surfacing .84 mi. Brickyard Rd., 16 ft. wide, to C. A. Greinke, 833 Morrison St., $20,684. Noted Mar. 27.

★**Wis., Appleton**—Comrs. Outagamie Co. let contract grading, draining and surfacing with concrete (a) 1 mi. Askeaton Rd., 9 ft. wide, involving 5280 sq.yd. 8 in. concrete; (b) 1.75 mi. Appleton Block Creek Rd., 16 ft. wide, 14,044 sq.yd. 8 in. concrete; (c) 2.5 mi. Shriocton Stephensville Rd., 16 ft. wide, 21,900 sq.yd. 8 in. concrete; (d) 2½ mi. Greenville Hortonville Rd., 16 ft. wide, 21,690 sq.yd. 8 in. concrete; (e) 2.5 mi Seymour Oneida Rd., 9 ft. wide, 12,000 sq.yd. 8 in. concrete, to C. A. Greinke, 833 Morrison St., (a) $13,165, (b) $34,806; P. Wunderlich, Black Creek, (c) $57,250; G. M. Gross, Hortonville, (d) $55,140; Garvey & Weyenberg, 812 College St., (e) $31,830.

★**Wis., River Falls**—City let contract paving various streets, to Johnson & Drake, 905 Plymouth Bldg., Minneapolis, $30,644.

★**Minn., Minneapolis**—Comrs. Hennepin Co. let contract paving 6.6 mi. concrete road from Anoka to Sherburne Co. line, to Widell Paving Co., 1st Natl. Bank Bldg., Mankato, $22,500 per mile.

★**Minn., St. Paul**—Comrs. Ramsey Co. let contract to Fielding & Shepley, Inc., 216 University Ave., paving Avon St. from Laurel to Summit Aves., cost, $8900; Earl St. from Hastings Ave. to Thorne St., $13,050; Concord St. from Ada to Annapolis Sts., $68,000; Laurel Ave. from west line Syndicate Ave. to Lexington Ave., $18,477; East 6th St. from east end 6th St. bridge to west line Arcade St. and Arcade St. from south line East 6th St. to south line East 7th St., $53,300. Noted Mar. 27.

★**N. D., Williston**—Comrs. Williams Co. let contract grading 30.5 mi. Federal Aid Project No. 3, to Schultz Bros., Bowbells, $61,047. Work involves 135,826 cu.yd. earth excav. Noted Mar. 27.

★**Tex., Dallas**—City let contract to Texas Bitulithic Co., Praetorian Bldg., paving Peabody Ave. from Wall to Howard Sts., 30 ft. wide, involving 8232 sq.yd. asphalt on 5 in. concrete base, 1697 lin.ft. monolithic curbing and guttering, 142 sq.ft. sidewalk, 700 cu.yd. excav. and 1376 ft. wire fabric, cost $25,934; Englewood St. from Tilden to Bishop Sts., 25 ft. wide, 3285 sq.yd. bituminous on 5 in. concrete base, 2402 lin.ft. monolithic curbing and guttering, 5785 cu.yd. excav. and 5785 lin.ft. wire fabric. $16,417.

★**Washington** — State Highway Dept., Olympia, let contract clearing, grading, draining and surfacing 13 mi. Inland Empire Highway from Spokane Co. line to Springdale, Stevens Co., to Genl. Constr. Co., North 1324 Elm St., Spokane, $153,474. Noted Apr. 3.

★**Wash., Seattle**—Bd. Pub. Wks. let contract paving, grading, laying armored concrete curbs, etc., on 2½ mi. Leary Ave., 18 ft. wide, 8 in. concrete, to Kaiser Paving Co., Everett, $82,228; concrete walks on ½ mi. 1st Ave. S. from Atlantic to Horton Sts., 6 ft. wide, to F. McLellan, Seattle, $22,120. Noted Apr. 3.

Ore., Portland—City received bids improving and grading (a) Van Houten St. from north line Lombard St. to south line Columbia Slough Rd.; (b) improving Hedge, Herefore and Gloucester Sts., from Alaska Heating & Plumbing Co., 413 East Morrison St., (a) $11,842; (b) $6276; Jacobsen-Jensen Co., 407 Stanton St., (a) $12,180; Cochran Bros., (a) $12,127; (b) $6,508; C. P. Archer and E. Myers, (b) $6,363. Noted Apr. 3.

Cal., Los Angeles—Bd. Pub. Wks. received bids grading and oiling and building cement curbs, walks and concrete gutters, also rein. con. bridge over railway tracks in Sherman Dr. and West Blvd. Impvt. Dist., from F. W. Young, Manhattan Beach, $32,000; W. M. Ledbetter, Pacific Electric Bldg., $34,475; L. F. Hendricks, Los Angeles, $34,953.

★**Cal., Los Angeles**—City let contract grading, oiling, rolling, curbing and guttering, Carillo St. from Kinsington Rd. to Bellevue Ave., to J. A. Hill, 695 Westmoreland Ave., $16,473. Work involves 46,464 sq.ft. rough grading at $0.19 per sq.ft., 46,464 sq.ft. oiling and rolling at $0.055 per sq.ft., 2891 lin.ft. cement curbs at $0.45 per lin.ft., 15,897 sq.ft. cement walks at $0.15 per sq.ft. and 6101 sq.ft. concrete gutter at $0.23 per sq.ft.

Railways

PROPOSED WORK

Montana—Great Northern Ry., St. Paul, Minn., plans to build double-track line west of Whitefish, also replace bridge over Whitefish River with new steel span and fill in Beaver Bay trestle. About $300,000. A. H. Hogeland, ch. engr.

Idaho—Caldwell Traction Co., Caldwell, having surveys made extending electric line 3 mi. to Nampa Ferry. W. R. Sebree, pres., treas. and genl. mgr.

California—Minkler Southern Ry., Visalia, received authorization to build line along Walnut and other streets to connect with Atchison, Topeka & Santa Fe Ry.

Canada—Dominion Government, Ottawa, Ont., plans to expend $11,121,681 for building and improving Canadian Government Railways during 1919 and 1920; $100,000 improving Port Nelson Terminals, Hudson Bay Ry., Man.; $35,000,000 on railway equipment and materials. W. A. Bowden, Ottawa, ch. engr.

BIDS DESIRED

Pennsylvania—Until Apr. 15, (change of date) by W. S. Twining, dir. dept., city transit, Mershon Bldg., building first 4 sections of Frankford, Bustleton, and Byberry Surface Passenger Railway from Frankford to Bustleton, 6 mi. long, Contr. No. 701; advertised in this issue. Noted Mar. 27.

Ontario—Until Apr. 15, by W. H. Maund, secy. treas., Temiskaming & Northern Ry. Comn., Imperial Oil Bldg., Toronto, for complete roadbed ballasting, fencing and laying tracks on 6 mi. line from Swastika to Kirkland Lake, and on 2 mi. line from Timmins to Mattagami River. Total cost about $400,000. S. B. Clement, ch. engr.

Excavation and Dredging

PROPOSED WORK

N. Y., Rome—Drainage—Bldg. Com., Chamber of Commerce, having plans prepared building drainage system to dewater 3000 acres land in southern section of city. W. J. Mullin, chn.

Ia., Sioux City—Channel—City plans to confine stream to conduit from 9th St. to mouth of Missouri River, cost, $700,000; improve open channel from mouth of Missouri River to 36th St., $400,000; widen and straighten channel from mouth for length of 4 mi.; new channel must be cut in many places and old channel filled in. Cost between $500,000 and $800,000. C. M. Finley, Sioux City, engr.

Minn., Bemidji—Excavation—See "Streets and Roads."

Minn., Blue Earth — Excavation — See "Streets and Roads."

Minn., Brainerd — Excavation — See "Streets and Roads."

Minn., Caledonia — Excavation — See "Streets and Roads."

Minn., Cambridge — Excavation — See "Streets and Roads."

Minn., Elbow Lake—Excavation—See "Streets and Roads."

Minn., Foley—Excavation—See "Streets and Roads."

Minn., Grand Rapids—Excavation—See "Streets and Roads."

Minn., Hastings — Excavation — See "Streets and Roads."

Minn., Jackson—Excavation—See "Streets and Roads."

Minn., Lesueur Center—Excavation—See "Streets and Roads."

Minn., Mantorville — Excavation — See "Streets and Roads."

Minn., Marshall — Excavation — See "Streets and Roads."

Minn., Montevide — Excavation — See "Streets and Roads."

Minn., Moorhead — Excavation — See "Streets and Roads."

Minn., Walker—Excavation—See "Streets and Roads."

Ore., Portland—Dredging—Port of Portland soon lets contract dredging area in front of Albina dock. J. P. Doyle, asst. secy. Noted Mar. 13.

Canada—Canals, etc.—Dominion Government, Ottawa, plans to build and improve following canals during 1919 and 1920: Welland Ship Canal, Ont., $3,500,000; Trent Canal, Ont., $1,000,000; Chambly Canal, Ont., $40,000; Carillon and Grenville Canal, Ont., $17,000; Lachine Canal, Que., $25,000; Soulanges Canal, Que., $152,000; Ontario—St. Lawrence Canal, Ont., $54,000; also dredge Detroit River, Fighting Island, Ont., $60,000; dredging Maritime Provinces, $350,000; Ontario and Quebec Dists., $350,000; Manitoba, Alberta and Saskatchewan Dists., $45,000; British Columbia Dist., $300,000.

BIDS DESIRED

R. I., Pawtucket—Excavation—Until Apr. 15, by I. Gill, city engr., excavating and grading 19,000 cu.yd.

N. Y., Albany—Barge Canal Work—Until Apr. 20, by L. Nixon, supt. pub. wks., Capitol for paving parts of terminal sites at Mott Haven, Greenpoint and Gowanus Bay, Contr. No. 44-P; dredging at Barge Canal terminals at piers 5 and 6, East River, at Greenpoint and Long Island City, Contr. No. 77; building Barge canal terminal freight-shed on Pier 93, West 53rd St., North River, New York City, Contr. No. 218; advertised in this issue.

N. C., New Holland—Canal—Until Apr. 24, by Mattamuskeet D. D. of Hyde Co., cleaning about 30 mi. canal involving 850,000 cu.yd. material. K. L. Ponzer, engr., advertised in this issue. Noted Mar. 13.

Ala., Mobile—Dredging—Until May 15, by Bd. City Comrs., dredging a minimum of 1,000,000 cu.yd. material at Arlington Pier on Mobile Bay. W. Smith, city engr.; advertised in this issue.

Minn., Wadena — Excavation — See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Miss., Water Valley**—Canal—Yalobusha Co. Drainage Bd. (Coffeeville) let contract building canal, involving 946,000 cu.yd excav., to N. C. McGinnis Co., 1704 Exch. Bldg., Memphis, Tenn.

★**Minn., Willmar**—Ditches—Comrs. Kandiyohi Co. let contract building Ditches No. 42 and 45, to Minnesota Constr. Co., 616 Plymouth Bldg., Minneapolis, $11,974 and $10,098 respectively.

Industrial Works

PROPOSED WORK

Mass., Springfield—J. D. Cokkinias, 69 Patton St., plans to build 5 story, 50 x 150 ft. candy factory, on North Main and Waverly Sts. About $60,000.

Mass., Springfield—Springfield Coal & Wood Co., 155 Main St., plans to build rein.-con. plant and coal pocket near Armory St. About $50,000.

Conn., Hartford—H. I. Brightman, 82 Wooster St., plans to build 2 story, 82 x 82 ft. brick and steel storehouse, (first floor to have rein.-con. flooring), concrete foundation, on Windsor Ave. About $40,000. Berenson & Moses, 26 State St., archts.

Conn., Hartford—F. C. Walz, archt., 348 Trumbull St., soon receives bids building 4 story, 64 x 90 x 128 ft. brick and steel garage, machine and paint shop, concrete foundation, on Main St., for Rosenberg & Older, 222 Collins St. About $80,000.

Conn., New London—Bilderbeck & Langdon, Inc., archts., 253 State St., soon receive bids building 2 story, 80 x 101 ft. rein.-con. garage, rein.-con. flooring, concrete foundation, on Main St., for M. A. Avery, 176 Main St. About $60,000.

Conn., Stamford — Thompson-Binger, engrs., 280 Madison Ave., New York City, soon let contract building 3 story, 128 x 150 ft. rein.-con. and steel warehouse, rein.-con. flooring, concrete foundation, on Canal St., for C. E. Slawson, Canal St. About $150,000.

N. Y., Brooklyn—W. Bauer, c/o Shampan & Shampan, archts., 772 Bway., having plans prepared building 3 story, 60 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on Vanderbilt and De Kalb Aves. About $50,000.

N. Y., Brooklyn—Diana Chocolate Co., 382 Jefferson Ave., having preliminary plans prepared by C. L. Otto, archt., 15 Park Row, New York City, building 5 story, 84 x 200 ft., brick and steel factory, rein.-con. flooring, concrete foundation, on Wyckoff and Willoughby Aves. About $100,000.

Industrial Works (Continued)

N. Y., Brooklyn—C. Marcusci, 135 West 3rd St., having plans prepared by F. Savignano, archt., 6005 14th Ave., for 2-story, 25 x 150 ft., brick and steel factory, rein.-con. flooring, concrete foundation. About $30,000.

N. Y., Brooklyn—Pirika Chocolate Co., 972 Dean St., soon receives bids building 3 story, 78 x 120 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Dean St. and Carlton Ave. About $130,000. Timmis & Chapman, 215 5th Ave., New York City, archts.

N. Y., Buffalo—Mentholatum Co., 146 Seneca St., soon let contract building 5 story, 100 x 160 ft. rein.-con. factory on Niagara and Brace Sts. Cost between $150,000 and $200,000.

N. Y., Gloversville—Geisler & Lehr Co. plan to build addition to plant to cover 40,000 sq.ft. floor space. About $50,000.

N. Y., Long Island City—Amer. Chicle Co., Harris Ave., plans to build 5 story rein.-con. and steel factory, rein-con. flooring, concrete foundation, on Harris Ave. Ballinger & Perrot, 1328 Bway., New York City, engrs.

N. Y., New York—G. Keister, archt., 56 West 45th St., soon lets contract building 4 story, 42x98 ft. brick and steel warehouse, rein.-con. flooring, concrete foundation, at 233-235 West 35th St., for W. H. Hussey & Son, 150 West 35th St. About $75,000. Noted Feb. 27.

N. Y., New York—B. Levitan, archt., 7 West 45th St., receives bids about April 18 (change of date), building 2 story, 100x171 ft brick and steel garage, rein.-con. flooring concrete foundation, on Lenox Ave., between 110th and 111th Sts., for Stalwart Realty Co., c/o Ames & Co., 26 West 31st St. About $200,000. Noted Mar. 13.

N. Y., Rochester—Gleason Wks., 1000 University Ave., plan to build 148 x 148 ft. rein.-con. pattern building, 12-21 ft. high. About $26,000.

N. J., Jersey City—M. W. Kellogg Co., West Side Ave., purchased 40 acre site on Hackensack Meadows and plans to build rein. con. and steel plant. About $3,000,000.

N. J., Newark—Amer. Food Co., 392 Plane St., having plans prepared by W. E. Lehman, archt., 738 Broad St., building 4 story, 50x80 ft., rein. con. and brick warehouse, rein. con. flooring, concrete foundation, on Badger Ave. south of Alpine St. About $100,000.

N. J., Newark—Baker & Co., Inc., 54 Austin St., having plans prepared by F. A. Phelps, archt., Union Bldg., building 5 story, 50x188 ft., rein. con. and brick addition to factory, rein. con. flooring, concrete foundation, on Murray and Austin Sts.

N. J., Newark—Detroit Cadillac Motor Co., 534 Broad St., having plans prepared by W. E. Lehman, archt., 738 Broad St., building 3 story, 60 x 120 ft., brick and concrete addition to auto service station, rein. con. flooring, concrete foundation.

N. J., Newark—Nickelsburg Bros. Co., Meadow St. and Lincoln Highway, having plans prepared by O'Rourke & Briscoe, archts., 45 Clinton St., building 3 story, 50 x 100 ft., concrete and brick plant, rein.-con. flooring, concrete foundation. About $30,000. Miller & Moran Chemical Wks., lessees.

N. J., Newark—E. V. Warren, archt., Essex Bldg., receives bids about Apr. 15, building 3 story, 40 x 140 x 300 ft., rein.-con. and brick garage, rein.-con. flooring, concrete foundation on Broad and Spring Sts., for State Garage Inc., c/o archts. About $150,000.

N. J., Toms River—New Jersey Pub. Utility Comn. ordered Ocean Co. Gas Co. to build additions to plant here. Order calls for installation of gas holder with 100,000 cu.ft. capacity, arrangement of present holder as relief holder, and additional generating unit and larger steam boiler.

Pa., Phila.—A. Colburn & Co., 2228 North 10th St., plans to build 4 story, 60 x 242 ft., brick and timber factory, on 10th and Nevada Sts. About $80,000.

Md., Baltimore—J. M. Curran, 501 North Pulaski St., plans to build 1 story, 208 x 286 ft., brick and mill construction garage, cement flooring, brick and concrete foundation, on Butchers Lane, Franklin and Calverton Sts. About $50,000. F. J. Beall, 1335 North Gilmor St., archt.

Md., Baltimore—Mangels—Herold Co., 1620 Gough St., plans to build 3 story, 50 x 168 ft., brick and steel syrup factory, rein.-con. flooring, stone and concrete foundation, on Key Highway and Harvey St. About $55,000. O. Kublitz, 1004 Emerson Tower, archt.

Va., Richmond—Spotless Co., 1017-27 East Canal St., plans to build 7 story, 130 x 140 ft., warehouse and office on 10th and Canal Sts. About $225,000. Carneal & Johnston, 707 Chamber of Commerce Bldg., archts.

Fla., Miami—Miami Electric Co. receives bids in summer for enlarging plant, thereby increasing capacity 150%. About $20,000. C. W. Murray, city engr.

La., De Ridder—City election Apr. 22, to vote on $90,000 bonds to install pumping, light and power plant. X. A. Kramer, Magnolia, Miss., engr.

Tenn., Memphis—Belmont Candy Co., 88 West Virginia St., plans to build 3 story brick and stone factory on Colorado and Kansas Sts. About $100,000.

O., Cleveland—Aluminum Castings Co., 2800 Howard Ave., plans to build brick, steel and concrete power house, on Havard Ave. and East 28th St. About $50,000. G. S. Rider Co., 612 Century Bldg., archts.

O., Cleveland—Kaplan & Shamman, 502 Sweatland Bldg., having plans prepared by Fulton & Taylor, archts., 631 Hippodrome Bldg., building 4 story, 65x131 ft. brick, steel and concrete, at 1260 Riverbed St. About $75,000.

O., Cleveland—C. F. Narwold, 2202 East 4th St., plans to build 5 story, 81 x 91 x 100 ft. brick, steel and rein.-con. factory, concrete foundation, at 522 Eagle Ave. About $150,000. Allen Osborne Co., 702 Rose Bldg., engrs.

O., Cleveland—J. M. and L. A. Osborne Co., Superior Viaduct, having plans prepared by G. S. Rider Co., archts., 612 Century Bldg., for 2 story, brick, steel and rein.-con. warehouse, on Superior Ave. and East 39th St. About $300,000.

O., Dayton—Dayton Buick Co., 2nd and Ludlow Sts., had preliminary sketches made by G. W. Drach, archt., Union Trust Bldg., Cincinnati, constructing 3 story, 78x178 ft. fireproof warehouse, repair shop and auto sales building on Main St.

O., Toledo—Toledo Factories Co., Southard and 12th Sts., plans to build machine shop. About $150,000. I. B. Hiett, pres.

Ind., Michigan City—Smith Bros., North Hamilton St., Poughkeepsie, N. Y., having plans prepared by W. P. Field, archt., 763 Broad St., Newark, N. J., for brick and rein.-con. plant, rein.-con. flooring and concrete foundation, here.

Ind., South Bend—Studebaker Corp., Detroit, Mich., plans to build additions to plant here, to include 4 story, concrete factory, also foundry, machine shop and power plant. About $1,650,000. Work will be done under supervision of W. F. Wollering, Detroit, 1st vice pres.

Ill., Chicago—W. J. Hirsh Co., 360 West Superior St., having plans prepared by A. S. Alschuler, archt., 28 East Jackson St., for 3 story, 200 x 200 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Diversy Ave. About $100,000.

Ill., Chicago—Kling Bros. & Co., 411 South Wells St., having plans prepared by A. S. Alschuler, archt., 28 East Jackson St., building 3 story, 125 x 300 ft. brick and timber factory, concrete foundation, on Wabansie and Milwaukee Aves. About $225,000.

Ill., Chicago—W. P. Whitney, archt., 38 South Dearborn St., preparing plans for three 1 story, 110 x 350 ft. brick and steel factories, concrete foundation. About $100,000. Owner's name withheld.

Ill., East Peoria (Peoria P. O.)—Conover-McHenry Elevator Co., recently incorporated, had plans prepared for grain elevator with 500,000 bushel capacity. About $250,000. E. B. Conover of E. B. Conover Grain Co., 322 South Washington St., and others, incorporators.

Ill., Peoria—Ideal Troy Laundry, 214 South Jefferson St., having plans prepared by B. L. Hulsebus, archt., Jefferson Bldg., for 1 and 2 story, 43 x 130 ft. brick and concrete laundry, on Glen Oak and Main Sts. About $35,000.

Ill., Peoria—Lehmann-Stern Knitting Co., 529-31 Fulton St., having plans prepared building 4 story, 78 x 160 ft. brick, concrete and steel factory, on Adams and Persiommon Sts. About $100,000. J. L. Stern, secy. and treas.

Wis., Manitowoc—Wisconsin Textile Mfg. Co., c/o O. B. Albert, Manitowoc, receives bids about Apr. 20, building 1 story, 90 x 200 ft., rein.-con., brick and steel factory, brick foundation. About $70,000.

Wis., North Freedom—North Freedom Canning Co., plans to build plant to include 1 story, 38 x 40 ft. boiler house and steam generating plant. About $50,000. G. Shore, mgr.

Wis., Plymouth—Wisconsin Cheese Produce Federation having plans prepared by B. E. Mehner, archt., 66 Main St., Fond du Lac, building 2 story, concrete and brick warehouse.

Ia., Mason City—J. E. Decker & Sons Packing Co., 15th St., N. E., soon receives bids building 2 story, 60 x 120 ft. concrete and brick addition to packing plant. About $60,000. J. E. Decker, pres.

Minn., St. Paul—North Amer. Casket Co. having plans prepared by H. Firminger, archt., 408 Oppenheim Bldg., for 1 story, 50 x 230 ft. brick factory, brick foundation. About $50,000.

Minn., St. Paul—W. H. Schmelzel Co., Inc., 117 University Ave., W., receives bids in May, building 1 story, 150x300 ft., warehouse on Atwater and Kent Sts. About $50,000. C. H. Johnston, 715 Capital Bank Bldg., engr.

Neb., Omaha—Am. Transfer & Fireproof Storage Co., had preliminary plans prepared by J. and A. McDonald, archts., 911 Omaha Natl. Bank Bldg., for 8 story, 100 x 132 ft., rein.-con. storage and transfer buildings on 14th and Pacific Sts. About $250,000. F. Busch, 1110 Douglas St., pres.

Neb., Omaha—Farrell & Co., 10th and Dodge Sts., plan to build 7 story, 60 x 100 ft., factory on 9th and Dodge Sts. About $100,000. D. H. Farrell, pres.

Tex., De Leon—W. C. Steety and associates purchased 40 acre site near here and plan to build oil refinery, 3000 bbl. daily capacity.

Tex., Houston—Burkhardt Laundry Co., 1704 Congress Ave., plans to build 2 story laundry on Congress and Jackson Aves. About $40,000.

Tex., Houston—Gurney Refrigerator Co., 64 South Brooke St., Fond du Lac, Wis., plans to build plant here. About $250,000. E. G. Vail, pres.

Tex., Longview—Texas Leasing & Development Co., Wichita Falls, plans to build oil refinery, 10,000 bbl. daily capacity, here.

Texas, Ranger—G. V. Taylor, Cushing, Okla. and H. A. Stroud, Electra, Cal., purchased site here and plan to build 2000 bbl. refinery.

Ariz., Phoenix—High School Trustees plan election to vote on $45,000 bonds to build machine shop and $25,000 for heating plant, in connection with improvements to high school.

Wash., Seattle—Seattle Warehouse Co., 107 Jackson St., plans to build 1 story, 250 x 750 ft., concrete and steel warehouse, rein.-con. flooring, to cover 250,000 sq.ft. floor space, on Duwamish Waterway. Plans include depressed railroad tracks and 135 ft. pier. About $250,000. H. Bittman, Securities Bldg., engr.

Wash., Yakima—Richey-Gilbert Co. plans to build 2 story, 100 x 180 ft. timber warehouse. About $100,000. W. Devereaux, Yakima, archt.

Cal., Los Angeles—Sun Drug Co., Los Angeles and Commercial Sts., plans to build 5 story, 140 x 150 ft., rein.-con., brick and steel plant, rein.-con. flooring, concrete foundation on Los Angeles St. near 11th St. About $200,000. I. Eisner, pres.

Que., Joliette—J. Dufresne receives bids in May building 50 x 119 ft. addition to biscuit factory. About $60,000. R. Gariepy, 54 Notre Dame St., Montreal, archt.

Que., Montreal—St. Henry Shoe Co., 1581 Notre Dame St., plans to build 50 x 75 ft., steel and brick shoe factory, concrete foundation, on Workman St. About $50,000.

Industrial Works (Continued)

Ont., Winsdor—Auto Specialty Mfg. Co., McDougal Ave., soon lets contract building 1 story, concrete and brick factory. About $50,000. Davidson & Weiss, 53 West Jackson Blvd., Chicago, Ill., archts.

BIDS DESIRED

R. I., Providence—Until Apr. 16, by F. A. Decker & Co., 290 Smith St., building 2 story, 70 x 90 ft. mill construction garage, rein.-con. flooring, concrete foundation, on Smith and Orm Sts. About $30,000. B. S. D. Martin, 86 Weybosset St., archt. Noted Mar. 27.

Conn., New Haven — Marlin - Rockwell Corp., Whitney Ave., receiving bids building 1 story, 160 x 180 ft. brick and concrete foundry, rein.-con. flooring, concrete foundation. About $100,000.

N. Y., New York—Until Apr. 15, by J. M. Felson, archt., 1133 Bway., building 2 story, 100 x 125 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 400 East 91st St. About $100,000. Owner's name withheld.

La., New Orleans—Until Apr. 16, by Bd. Levee Comrs. of Orleans Levee Dist., New Orleans Court Bldg., building 2 story, brick garage and warehouse on square bounded by Canal, Water, Gravier and Delta, 1st dist. T. Killeen, pres.

O., Columbus—Amer. Rolling Mills Co. is receiving bids for extensive remodeling and new construction work at its plant along tracks of Toledo & Ohio Central R.R. on Parsons Ave. Work includes relining 2 furnaces, putting in 8 hot blast stoves, raising number of former stoves and building gas dry cleaning plant. Cost between $300,000 and $400,000. J. C. Miller, Middletown, local mgr.

Ill., Decatur—Consumers Refining Co. receiving bids building 40 x 75 ft. mill construction warehouse, 25 x 80 ft. brick garage and 25 x 40 ft. brick filling station, on Main and North Sts. Riddle & Riddle, 122 South Michigan Ave., Chicago, archts.

Wis., Chippewa Falls—Until Apr. 22, by State Bd. Control, Madison, rebuilding laundry at home for feeble minded here. J. O. Davidson, pres.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Ashland**—United States Color Co. let contract building 2 story, 50 x 84 ft. concrete factory, concrete foundation, to Penn Tile & Constr. Co., 45 Milk St., Boston. About $50,000.

★**Mass., New Bedford**—W. A. Robinson Oil Co., 144 South Water St., let contract rebuilding 4 story brick, steel and rein.-con. storage plant, concrete foundation, recently destoryed by fire, to J. W. Bishop Co., Times Bldg. About $60,000. Noted Mar. 13.

★**Conn., Southington**—Peck, Stow & Wilcox Co., Railroad Sq., let contract building 6 story, 55 x 112 ft. and 22 x 43 ft. brick and steel factory, (first floor to have rein.-con. flooring), concrete foundation, on Center St., to Torrington Bldg. Co., 197 Water St., Torrington. About $125,000.

★**Conn., Stratford** (Bridgeport P. O.)—Raybestos Co., Bostwick Ave., Bridgeport, let contract building 1 story, 160 x 170 ft. brick and rein.-con. factory, rein.-con. flooring, concrete foundation, on East Main St., here, to J. R. Sheehan, 211 State St., Bridgeport. About $100,000. Noted Mar. 27.

★**N. Y., Brooklyn**—S. Ageloff, 126 Reid Ave., will build 1 story, 81 x 115 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on DeKalb and Tompkins Aves. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—M. F. Finnegan, 44 Court St., will build 1 story, 50 x 200 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Coney Island and Greenwood Aves. About $35,000. Work will be done by day labor. Noted Jan. 30.

★**N. Y., Brooklyn**—F. Savignano, archt., prepared plans for 1 story, 60 x 100 ft., brick and steel foundry, rein.-con. flooring, concrete foundation, on 60th St. and 12th Ave. Work will be done by day labor. Owner's name withheld. Noted Mar. 20.

★**N. Y., New York**—D. Auerbach & Co., 638 11th Ave., let contract building 11 story brick and steel factory, rein.-con. flooring, concrete foundation, at 642-11th Ave., to M. Eidlitz & Son, 30 East 42nd St. Noted Feb. 20.

★**N. Y., Rochester**—Beechnut Packing Co., Canajoharie, let contract building 2 story, 120 x 180 ft., rein.-con. addition to plant on Main St., E., here, to Aberthaw Constr. Co., 27 School St., Boston. About $70,000. Noted Mar. 20.

★**N. Y., Tarrytown**—General Motors Corp., Chevrolet Div., let contract building 3 story, 80 x 220 ft. rein.-con. addition to factory, rein.-con. flooring, concrete foundation, on Kingsland Pt., to White Fireproof Constr. Co., 286 5th Ave. About $500,000.

★**N. Y., Watertown**—P. W. Devendorf, 145 Arsenal St., let contract building 2 story, 72 x 150 ft. brick and tile garage and repair shop, concrete flooring, to N. B. Hayes. About $40,000. Noted Mar. 6.

★**N. J., Newark**—Amer. Metal Bed Co., 42 Clifton St., let contract building 1 story, 125 x 200 ft., concrete and brick factory, concrete foundation, at 16 Clifton St., to H. M. Doremus, 36 Orange St. About $30,000.

★**N. J., Newark**—Amer. Oil & Supply Co., 52 Lafayette St., let contract building 1 and 2 story, fireproof oil plant at 236 Wilson Ave., consisting of storage and office buildings, power house, etc., rein.-con. flooring, concrete foundation, to C. R. Hedden Co., 763 Broad St., about $70,000. Noted Mar. 13.

★**N. J., Newark**—Lewis Bros., 133 Monroe St., let contract building 4 story, mill construction factory, concrete foundation, on Monroe and Lafayette Sts., to Essex Constr. Co., 85 Academy St., $75,000.

★**N. J., Newark**—Warner Bros., 270 Jelliff Ave., let contract building 4 story, 40 x 96 ft., rein.-con. and brick addition to warehouse, rein.-con. flooring, concrete foundation, to Pellecchia, 21 Mt. Prospect Ave. About $25,000. Noted Feb. 20.

★**Ala., Dothan**—Dothan Milling & Mfg. Co. let contract constructing 120 x 120 ft. and 25 x 25 ft. mill construction buildings, to H. H. Brown, Dothan. About $50,000.

★**La., Alexandria**—Alexandria Veneer Co. will build 100 x 150 ft. frame and brick plant. About $25,000. Work will be done by day labor.

★**O., Akron**— McNeil Boiler Co., Crosier and Swietzer Sts., let steel contract building 1 story, 80 x 340 ft. factory, to Burger Iron Wks., South Main and Cole Sts., on cost plus basis.

★**O., Cleveland** — Reflex Ignition Co., Superior Bldg., let contract building 2 story, 80 x 160 ft. brick, steel and rein.-con., rein.-con. flooring and concrete foundation, on West 110th St. and New York Central R.R., to S. W. Emerson Co., 1900 Euclid Bldg. About $65,000.

★**Mich., Detroit**—Burkhardt Bldg. Co., 85-87 Congress St., let contract building 5 story, 75 x 75 ft. brick and rein.-con. factory, rein.-con. flooring, concrete foundation on 2nd Ave. and Larned St., to Cooper-Widenmann Constr. Co., 854 Penobscot Bldg. About $60,000. Noted Mar. 20.

★**Mich., Detroit**—Liberty Starter Co., 702 West Jefferson Ave., let contract building 2 story, 112 x 114 ft. brick and steel factory, rein.-con. flooring, concrete foundation, on West Jefferson Ave., to O. Misch Co., 725 Chamber Commerce Bldg.

★**Mich., Highland Park** (Detroit P. O.)—Maxwell Motor Car Co., Oakland Ave., let contract building 1 story, 78 x 140 ft. brick and steel heat treating shop and 1 story, 120 x 372 ft. brick and steel forge shop, concrete foundation, on Oakland Ave., to Walbridge Aldinger Co., 2356 Penobscot Bldg., Detroit. Total cost $51,000.

★**Ill., Chicago**—Illinois Packing Co., 3940 Normal Ave., let contract building 4 story, 70 x 147 ft. packing plant, 1 story, 50 x 60 ft. power plant, 1 story, 25x55 ft. office, rein.-con., rein.-con. flooring, concrete foundation, on Auburn and 38th Sts., to J. Rodatz, 209 South La Salle St. About $225,000. Noted Feb. 13.

★**Ill., Chicago**—Industrial Bldg. Co., 38 South Dearborn St., will build 1 story, 110 x 286 ft. rein.-con. machine shop, rein.-con. flooring, concrete foundation. About $70,000. Owners name withheld.

★**Ill., Chicago**—Western Packing & Provision Co., 3854 South Morgan St., let contract building 1 story, 75 x 175 ft. brick and timber garage, brick foundation, at 3822 South Morgan St., to J. Rodatz, 209 South La Salle St. About $28,000.

★**Ill., Chicago**—Western Stoneware Co., 2911 South La Salle St., let contract building 2 story, 100 x 135 ft. brick and timber warehouse, wood and cement flooring, concrete foundation, at 124 West 46th St., to Industrial Bldg. Co., 38 South Dearborn St. About $45,000.

★**Wis., Fond du Lac**—Natl. Drop Head Projector Co. let contract building 2 story, 48 x 80 ft brick factory, to Rosenbaum Constr. Co., 13 East 1st St.

★**Wis., Tripoli** — Bissell Lumber Co., Marshfield, let contract for doubling capacity of saw and planing mills here, to Rhinelander Iron Wks., Rhinelander. About $40,000.

★**Wis., Valders** — Wisconsin Condensed Milk Co. let contract building 2 story, 30 x 125 ft., rein.-con., brick and steel condensery, rein.-con. flooring, brick foundation, to A. Hogaseen, Valders. $78,500.

★**Ia., Dubuque** — Brunswick - Balke - Collender Co. let contract constructing factory, motor building and dry kilns, to A. Zwack, 13th and Clay Sts. About $100,000.

★**Minn., Hibbing**—Hibbing Power & Light Dept. let contract building 3 story, 100 x 160 ft., rein.-con. and brick power house, rein.-con. flooring, concrete foundation, on 6th Ave. and Wilson St., to Natl. Electric Constr. Co., St. Paul, $700,959. Noted Jan. 9.

★**Neb., Omaha**—J. P. Jerpe Comn. Co., 1108-10 Howard St., let contract building 3 story, 110 x 132 ft. rein.-con. and brick warehouse, to J. Lof & Sons, 600 Barker Blk., $80,000. Noted Dec. 5.

★**Okla., Newkirk**—Arkansas Valley Tractor Co. let contract building 1 and 2 story, 50 x 200 ft., rein.-con. and steel factory, to J. W. Nidway, Newkirk, $31,000.

★**Cal., Atascadero**—Colony Holding Corp. let contract building and equipping 100 x 416 ft. timber dehydrating plant, cement flooring, concrete foundation, to H. Clarke Co., 1101 East 5th St., Los Angeles. About $125,000.

★**Cal., Hanford**—California Packing Corp., 101 California St., San Francisco, let contract building 1 story, 110 x 250 ft., brick and frame factory and 100 x 250 ft. frame warehouse, power house and number of cottages here, to R. F. Felchin, Rowell Bldg., Frenso. About $50,000. Noted Mar. 6.

★**Cal., Los Angeles**—Angeles Furniture Co. will build 2 story, 13 x 80 ft., brick and concrete warehouse, 2 story, 40 x 138 ft. timber and corrugated iron mill, on East Pico St. Work will be done by day labor.

★**Cal., Los Angeles**—Hollywood Studios, Inc., 6980 Hollywood Blvd., let contract building steel and timber moving picture plant, rein.-con. flooring, concrete foundation on Santa Monica Blvd., to include administration service and other buildings, to Milwaukee Bldg. Co., Wright and Callender Bldg. About $250,000.

★**Cal., San Jose**—Richmond-Chase Co. let contract building 3 story, 40 x 250 ft., rein.-con. warehouse, 1 story, 120 x 210 ft. frame fruit cannery, 2 story, 41 x 120 ft. fruit packing building, power house and cafeteria, to Z. O. Field, 167 South 14th St.; cost plus percentage.

Buildings

PROPOSED WORK

Mass., Brookline (Boston P. O.)—Bank—Brookline Trust Co. having plans prepared by T. M. James, archt., 185 Devonshire St., Boston, for 2 story, 60 x 113 ft. concrete and steel, rein.-con. flooring, concrete foundation, on Beacon St.

Mass., Brookline (Boston P. O.)—Hospital—W. A. Brooks, 167 Beacon St., Boston, having plans prepared for 2 story hospital on Summit Ave., here. About $175,000.

Mass., Dorchester (Boston P. O.)—Market—W. M. Bacon, archt., 27 Kilby St., Boston, soon lets contract building 2 story, 84x117 ft., brick and rein.-con., rein.-con. flooring, concrete foundation, on Ramsey St., for Upham Market Co. About $100,000. Noted Feb. 27.

Buildings (Continued)

Mass., Springfield — Business — M. L. Cooley, 607 Main St., soon receives bids remodelling brick and steel building, concrete foundation. About $50,000.

Mass., Springfield—Theatre—Fox Amusement Co., 130 West 46th St., New York City, plans to build 2 story, 115 x 200 ft., brick, steel and stone, stone flooring, concrete foundation, on Main St., here. About $500,000. T. Lamb, 644 8th Ave., New York City, archt.

Mass., Worcester—Hotel—Higgins & Fitzgerald, 840 Main St., plan to build 3 story, 40 x 125 ft. concrete and brick, concrete foundation on West and Elm Sts. About $125,000.

R. I., Barrington—School—Town receives bids about Apr. 19, building 2 story, brick and steel, concrete foundation. About $50,000. F. S. Peck, chn. com. W. R. Walker & Son, Custom House St., Providence, archts.

R. I., East Providence (Providence P. O.)—Club House—Metacomet Golf Club, Union Trust Bldg., receives bids about May 1, building 2 story brick. About $50,000. W. R. Walker & Son, 17 Custom House St., Providence, archts.

R. I., Pawtucket—Business—Bellows & Aldrich, archts., 8 Beacon St., Boston, soon receive bids building 2 story, 60 x 160 ft. rein.-con. addition to plant, rein.-con. flooring, concrete foundation, on North Union St., for Times Publishing Co., Exchange St. About $60,000.

Conn., Bridgeport—Business—F. Jacoby, 1083 Broad St., plans to build 3 story, 52 x 150 ft. brick and steel, rein.-con. flooring, concrete foundation, on Main St. opposite Lumber St. About $65,000. F. A. Cooper, 1024 Main St., archt.

Conn., Bridgeport—Club House, etc.—Bridgeport Aerie of Eagles, 67 Madison Ave., plans to build club house and auditorium, on Main St. and East Washington Ave. About $150,000.

Conn., Bridgeport—Memorial—F. Crosby Memorial Assn., c/o O. H. Brothwell, treas., 888 Main St., plans to build memorial to Fanny Crosby. About $50,000.

Conn., Bridgeport—Parish Hall—Olivet congregation, 2140 Main St., plans to build 2 story hall on Main St. opposite Tom Thumb St. About $60,000. Address H. S. Brown, pastor.

Conn., Hartford—Bath House—City voted $50,000 bonds to build bath house on Front St. Address P. A. Mason, supt. pub. bldgs. com.

Conn., Hartford—Theater—J. Glassman, 241 Franklin St., receives bids about May 1, building brick and concrete on Franklin Ave. and Barker St. About $50,000.

Conn., Stratford (Bridgeport P. O.)—Business—H. C. Lorell, 2419 Main St., plans to construct business building on Main St. About $60,000.

N. Y., Brooklyn—Bank-Ludlow & Peabody, archts., 181 Montague St., soon let contract building 4 story, brick and steel concrete foundation, at 230-232 Flatbush Ave., for Peoples Trust Co., 181 Montague St. About $75,000.

N. Y., Brooklyn—Theatre—A. Stockhammer, 1368 St. Johns Pl., having plans prepared by Carlson & Wiseman, archts., 226 Henry St., for 2 story, 100 x 120 ft., brick and steel, rein.-con. flooring, concrete foundation, on St. Johns Pl. and Schenectady Ave. About $150,000.

N. Y., Garretson (Staten Island P. O.)—School—Bd. Educ. had plans prepared by C. B. J. Snyder, archt., Municipal Bldg., New York City, for P. S. 11, 1 story, 103 x 140 ft. steel and brick, concrete foundation. About $90,000. Noted Dec. 5, 1918.

N. Y., New York—Nurses Home—St. Marys Free Hospital, 407 West 34th St., having plans prepared by C. P. H. Gilbert, archt., 1123 Bway., for 5 story, 45 x 50 x 100 ft., brick and steel, concrete foundation. About $75,000.

N. Y., New York—Office—Lehn & Fink, 120 William St., having preliminary sketches made by Buchman & Kahn, archts., 56 West 45th St., for 15 or 20 story, brick and steel, concrete foundation, on Greenwich and Morton Sts. About $1,000,000.

N. Y., New York—Synagogue—Temple Gate of Hope, 130 Madison Ave., having plans prepared by J. M. Felson, archt., 1133 Bway., for 3 story, 50 x 100 ft., brick and steel, concrete foundation, 177th St. and Bway. About $50,000.

N. Y., Salisbury Center—Hospital—Bd. Supervs., Herkimer Co. (Herkimer), soon receives bids building brick and concrete tuberculosis hospital on Heller Farm, here. Bonds for $150,000 sold for project. Noted Mar. 13.

N. J., Newark—Hotel—R. Treat Hotel Co., c/o Guilbert & Betelle, archts., 665 Broad St., having plans prepared for 14-story, 86 x 160 ft., concrete, brick and steel, addition to hotel at 54 Park Pl., rein.-con. flooring, concrete foundation. About $1,000,000.

N. J., Westfield—Church and Sunday School—First Baptist congregation soon receives bids building 1 story, brick, steel and stone, concrete foundation on Elm St. About $50,000. Ludlow & Peabody, 101 Park Ave., New York City, archts.

Pa., Phila.—Bank—Germantown Trust Co., Germantown and Chelton Ave., having sketches prepared by A. H. Brockie, archt., 1713 Sansom St., altering and building addition to existing bank. About $50,000.

Pa., Phila.—Bank—Tenth Natl. Bank, 1645 North Broad St., having sketches prepared for 54 x 64 ft. addition. About $50,000.

Pa., Pittsburgh—Y. M. C. A. having plans prepared by E. B. Lee, archt., Chamber Commerce Bldg., constructing 4 story, 81 x 120 ft., steel and brick building, concrete foundation, on Center and Francis St. About $100,000.

Md., Baltimore — Bank — Merchants-Mechanics 1st Natl. Bank purchased site on South St. and plans to build 2 story, 20 x 110 ft., steel and concrete addition. Cost between $60,000 and $70,000. J. B. Ramsey, chn. bd. dirs.

Md., Baltimore—Theater—F. O. Singer, 600 Equitable Bldg., plans to build 2 story, brick, steel and concrete, on Howard St. About $400,000. W. O. Sharklin, 802 Law Bldg., archt.

Va., Richmond — Auditorium — Calvary Baptist congregation plans to build 1-story, 82 x 97 ft. brick, addition to Sunday school, rein.-con. foundation, on Grove Ave. and Blvd. About $50,000. Address R. A. Gary, 2316 Stuart Ave. H. L. Cain, 2311 Grove Ave., archt.

Va., Richmond—Office—See "Industrial Works."

Va., Richmond—Sunday School and Church—Grace Covenant Presbyterian congregation having plans prepared by Peebles & Ferguson, archts., Norfolk, for Sunday school and church on Monument Ave. About $50,000 and $90,000 respectively. J. S. Parrish, c/o Richmond Cedar Wks., chn. bldg. com.

W. Va., Morgantown—Bank and Office—Bank of Morgantown plans to build 7 story, 26 x 70 ft. steel and concrete. T. E. Hodges, pres.

N. C., Asheville—Schools—City election May 6, to vote on $110,000 bonds to complete high school, $40,000 to build colored school and $50,000 to improve present structures.

N. C., High Point—Hospital—City election May 6, to vote on $100,000 bonds to build and maintain memorial hospital.

N. C., High Point—School—City election May 6, to vote on $50,000 bonds to improve and enlarge school.

S. C., Florence—School—City plans to issue $100,000 bonds to improve schools.

S. C., Rock Hill—School—City election about May 15, to vote on $75,000 bonds to build school in Rock Hill School Dist.

Ga., Atlanta—Hospital—Davis-Fischer Sanitorium, East Linden St., having plans prepared by E. C. Wachendorff, archt., 408 Chamber Commerce Bldg., for 8 story, 50 x 125 ft. addition. About $140,000.

Ga., Atlanta—Theatre—C. B. Howard, Atlanta, and T. Howard, Macon, having plans prepared by Hentz, Reed & Adler, archts., Candler Bldg., for 90x406 ft. theater and garage, on Peachtree St. About $500,000.

Ga., Gainesville — High School — City plans election to vote on $100,000 bonds to build and equip high school.

Fla., West Palm Beach—Hospital—Good Samaritan Hospital soon receives bids building hospital. About $50,000.

Miss., Charleston—Schools—Town plans to issue $75,000 bonds to build and repair schools. W. D. Brown, clk.

Tenn., Memphis — Hospital — City and Shelby Co. plan to issue $300,000 bonds to build 2 story on Pigeon Roost Rd. Jones & Furbringer, Porter Blk., archts. Noted Feb. 27.

O., Akron—Hotel—Para Co., c/o C. P. McCready, vice pres., plans to build 11 or 12 story, 88 x 122 ft., on site of present Buchtel Hotel, South Main and Mill Sts. About $750,000.

O., Cleveland—Hospital—St. Lukes Hospital Assn., 6606 Carnegie Ave., plans to build brick, steed and rein.-con. addition, concrete foundation. About $500,000.

O., Cleveland—Mercantile—O. P. Brown, 304 East St., New Castle, Pa., plans to build 10 story brick, steel and rein.-con., concrete foundation, at 1110 Superior Ave., here. About $100,000.

O., Cleveland Heights (Cleveland P. O. School—Bd. Educ. and F. C. Warner, archt., 768 Hippodrome Annex Bldg., receives bids in May building 2 story, brick, steel and rein.-con., rock and concrete foundation, on Roxboro Ave. About $225,000. Noted Jan. 2.

O., Dayton — Office — See "Industrial Works."

O., Troy—Salesroom, etc.—Dayton & Troy Auto Co. plans to build 2 story, 50 x 120 ft. brick and rein.-con. salesroom and garage, rein.-con. flooring, concrete foundation, on South Market St. About $50,000.

Ind., Gary—Theater—Eagle Theater Co. having plans prepared by D. S. Klafter, archt., 64 West Randolph St., Chicago, Ill.; building 1 story, 75 x 125 ft. brick and steel, rein.-con. flooring, concrete foundation, at 16th St. and Bway. About $125,000.

Mich., Detroit—Bank and Office—First and Old Detroit Natl. Bank, Ford Bldg., had plans prepared by A. Kahn, archt., Marquette Bldg., for 15 story, 180 x 187 ft. steel and brick, on Woodward Ave. and Cadillac Sq.

Mich., Detroit—Mercantile-Crowley-Milner Co., Farmer St., soon lets contract building 3 story, 97 x 216 ft. steel and brick addition. Smith, Hinchman & Grylls, 710 Washington Arcade, archts.

Mich., Detroit—Mercantile—W. H. Turner, 512 Moffat Bldg., having plans prepared by A. Kahn, archt., Marquette Bldg., building 4 or 6 story, 40 x 100 ft. ell shaped brick and rein.-con., rein.-con. flooring, concrete foundation, on Michigan Ave. and Washington Blvd., Finsterwald Furniture Co., lessee. About $125,000.

Mich., Flint—Armory, etc.—City plans to build memorial armory to cost $140,000. State appropriated $60,000 toward cost.

Mich., Flint—Bank and Office—Natl. Bank of Flint and Genesee Co. Savings Bank had plans prepared by Hoggson Bros., archts., 485 5th Ave., New York City, for 10 story, 44 x 120 ft. brick, steel and stone, concrete foundation, on Kearsley and Saginaw Sts. Address A. G. Bishop, Flint.

Mich., Howell—High School—Bd. Educ. soon receives bids building 2 story high school. About $100,000. R. A. Le Roy, Prat Bldg., Kalamazoo, archt.

Ill., Austin (Chicago P. O.)—Church—W. C. Jones, archt., 30 North La Salle St., Chicago, receives bids about Apr. 15, building 1 story, 66 x 106 ft. brick and timber, concrete foundation, at 120 North Central Ave., for Kloeckner Memorial Evangelical congregation, c/o archt. About $75,000.

Ill., Chicago—Office, Bank and Store—South Chicago Savings Bank, 3017 East 92nd St., having plans prepared by Ivar Viehe-Naess, archt., 64 East Van Buren St., for 4 story, 55 x 160 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on 92nd St. and Commercial Ave. About $200,000. Noted May 30.

Ill., Le Roy—Bank—Keenan Natl. Bank having plans prepared by A. L. Pillsbury, archt., Peoples Bank Bldg., Bloomington, remodeling and building addition to bank. About $50,000. J. Keenan, pres.

Ill., Villa Grove—High School—J. W. Royer, archt., Flat Iron Bldg., Urbana, receives bids about April 15, for 3 story, 85 x 200 ft., for Bd. Educ. About $100,000. W. E. Irwin, chn. Noted Mar. 6.

Wis., Chippewa Falls—School—City plans to build junior high and vocational school here. Cost, including equipment, between $190,000 and $200,000. L. M. Newman, chn.

Buildings (Continued)

Wis., Manitowoc—Depot—Chicago, North Western R.R., Jackson Blvd. and Franklin St., Chicago, plans to build depot on Leland Ave. here. About $500,000. W. H. Finley, ch. engr.

Wis., Sheboygan — High School — City plans to build high school on Jefferson and 9th Sts. About $300,000. C. M. Boley, city engr.

Wis., Two Rivers—Memorial—City had preliminary plans prepared by Childs & Smith, engrs., 64 East Van Buren St., Chicago, for memorial building. About $50,000.

Minn., Austin—Theater—Cozy Theater Co. receives bids about May 1, building 60 x 135 ft. rein.-con., brick and steel. About $55,000. S. Jacobson, 601 Capital Bank Bldg., St. Paul, archt.

Minn., Cloquet—High School—Bd. Educ. soon lets contract building 3 story, 65x190 ft., rein. con., brick and steel, rein. con. flooring, concrete foundation on Main St. About $140,000. Croft & Boerner, Lonsdale Bldg. Duluth, archts. Noted Jan. 30.

Minn., Cloquet—High School—Bd. Educ. soon lets contract building 3 story, rein.-con., concrete foundation. Croft & Boerner, Lonsdale Bldg. Duluth, archts. Noted Jan. 30

Minn., Minneapolis—Bank and Office—H E Pence, 800 Hennepin St., having plans prepared for 10 or 12 story on Hennepin Ave.—and 8th St

Minn., St. Paul—Dispensary—A. H. Wilder Charity, 404 Wilder Bldg., plans to build 3 story, 51x96 ft., rein. con. and brick on Rice St. between College and Summit Aves. About $100,000. C. H. Johnston, 715 Capital Bldg. engr.

Mont., Wolf Point—Bank and Office—Security State Bank plans to build 2 story, 58 x 80 ft. brick, concrete foundation, on Assiniboine Ave. and 3rd St. About $50,000.

Mo., St. Louis—Community—Union Ave. Christian, Westminster Presbyterian, Pilgrim Congregational and Central Presbyterian congregations, plan to build community center. About $50,000. Address G. A. Campbell, 5411 Vernon Ave.

Mo., St. Louis—Hotel—J. Helm, archt., 4006 Castleman Ave., receives bids about Apr. 15, building 4 story, 66 x 120 ft., concrete and brick, rein.-con. flooring, concrete foundation at 3516 Washington Ave., for A. Fox, 3518 Washington Ave. About $60,000.

Mo., St. Louis—Temple—Masonic Lodges of St. Louis, 5330 Pershing Ave., plan to build temple to include 6 lodge rooms, library, banquet halls, dance hall and chapel. About $700,000. D. A. Jamison, chn. bldg. com.

Mo., St. Louis—Theater and Office—F. Tate, 402 Central Natl. Bank Bldg., soon receives bids for 4 story, 110 x 150 ft. About $500,000. G. A. Lansburgh, 2122 Pacific Ave., San Francisco, archt.

Tex., Abilene—Science—Simmons College had plans prepared for science building. Cost between $50,000 and $75,000.

Tex., Amarillo — School — Independent School Dist. voted $80,000 bonds to purchase site and build school. E. P. Works, pres. bd. trustees.

Tex., Fairfield—Courthouse—Coms. Freestone Co. plan to build courthouse. About $125,000.

Tex., Polytechnic—School—City election Apr. 26 to vote on $52,000 bonds to build school and 3 story addition to McRae School. S. S. Ogilvie, chn. school board.

Tex., Ranger—Club—Benevolent Protective Order of Elks plans to build clubhouse. About $50,000.

Tex., San Antonio — Church — Orthodox Jewish congregation, 115 Newton St., having plans prepared by C. W. Adams, archt., Gibbs Bldg., for 85 x 100 ft., rein.-con. and brick on Main Ave. and Quincy St. Cost between $50,000 and $60,000. A. Gerstein, rabbi.

Tex., Waco—Schools—City plans election to vote on $150,000 bonds to build schools. B. B. Cobb, supt.

Okla., Durant—High School—City voted $120,000 bonds to build high school. Noted Mar. 13.

Okla., Holdenville—School—Bd. Educ. having plans prepared by Tonini & Bramblett, archts., 301 Terminal Bldg., Oklahoma, building 2 story, rein.-con. brick and stone. Bonds for $75,000 voted for project.

Okla., Miami—Mining School—State Legislature, capitol, Oklahoma, appropriated $125,000 to build and maintain State School of Mines here.

Okla., Sapulpa—Hospital—City plans to build 2 story, brick and stone. Bonds for $50,000 voted for project. G. B. Steck, city clk.

Colo., Montrose—Hotel—C. O. Earnest, 702 2nd St., receives bids in about 2 months, building 3 story, 50 x 125 ft. brick, steel and concrete. About $65,000. W. N. Bowman, Central Savings Bank Bldg., Denver, archt.

Colo., Sterling—Hospital—City soon receives bids building hospital. About $60,000. Money to be raised by public subscription. Wilson & Wilson, Commonwealth Bldg., Denver, archts.

Idaho, Rexburg—Court House—Comrs. Madison Co. plan election soon to vote on $100,000 bonds to build court house.

Nev., Elko—School—Bd. Educ. having plans prepared by F. J. De Longchamps, archt., Reno, for 2 story, brick and concrete. About $100,000.

Ariz., Phoenix—Arts—High School Trustees plan election to vote on $100,000 bonds to build 20 room Liberal Arts Building and $40,000 for gynasium, in connection with improvements to high school.

Ore., Pendleton—Lodge—Pendleton Lodge No. 288, B. P. O. E. plans to build 3 story on Court and Cottonwood Sts. About $60,000. G. W. Phelps, Court House, trustee.

Ore., Portland—Temple—Labor Temple Assn., 162 2nd St., plans to build on 4th and Jefferson Sts. About $120,000. H. Anderson, pres.

Cal., Covina—Schools—Trustees C School Dist. plan election Apr. 14 to vote on $150,000 bonds to build 1 story concrete school, rein.-con. flooring, concrete foundation. W. W. Nash, trustee.

Cal., Fowler — High School — Trustees Union High School Dist. plan election to vote $100,000 bonds to build high school.

Cal., Fresno—High School—High School Trustees purchased 30 acre site and plan election to vote between $600,000 and $700,000 bonds to build high school on Palm Ave.

Cal., Porterville—Auditorium—City plans to vote on bond issue to build auditorium. Cost between $50,000 and $100,000. G. C. Murphy and E. L. Lindsay appointed to secure plans. E. F. Halbert, city clk.

Cal., San Bernardino—Schools—Bd. Educ. considering election to vote on $150,000 bonds to build 3 schools. W. C. Seccombe, pres.

Canada—Post Offices, Hospitals, etc.—Dominion Government, Ottawa, Ont., plans to expend $60,000 for building postal station at Maisonneauve, Que.; $400,000 for post office at Calgary, Alta.; $100,000 for additions to post office at Edmonton, Alta.; $62,000 for improvements and alterations to Receiver Generals Building, at Toronto, Ont.; $400,000 for new buildings, hospitals, etc., at Grosse Isle, Que., R. C. Wright, c/o Dept. Pub. Wks., Ottawa, archt.

Que., Notre Dame de Grace — School — Roman Catholic School Comn., 87 St. Catherine St., Montreal, purchased site here and plans to build 3 story, 60 x 75 ft., steel and brick, for St. Augustine Parish. About $100,000. A Lafontaine, 87 St. Catherine St., Montreal, archt.

Que., Verdun—School—J. E. A. Benoit, archt., 1200 Wellington St., soon receives bids building 3 story, 31 x 52 ft., stone and brick, concrete foundation, on Galt Ave., for Roman Catholic School Comn. About $60,000.

Ontario — Hospital — Schools, etc.—Provincial Government, Ottawa, plans to improve and enlarge hospitals, schools, etc., in following cities: Eastern Hospital, Brockville, $77,000; Provincial Normal School, Belleville, $50,000; Rockwood Hospital, Kingston, $110,000; Hamilton, $70,000; London, $105,000; Mimico, $90,000; also new institution at Whitby, $483,000. F. R. Heakes, c/o Dept. Pub. Wks., Toronto, archt.

Ont., Guelph—Dormitory, etc.—Ontario Agricultural College, College Heights, receives bids in about 5 weeks building boy's dormitory, cost $150,000; addition to McDonald Hall, $25,000; new apiary, $15,000; and memorial hall, $40,000. F. R. Heakes, Parliament Bldgs., Toronto, archt.

Ont., Kitchener—Station—Canadian Pacific Ry., Windsor St., Montreal, Que., soon receives bids for station. About $75,000. J. M. R. Fairbairn, Montreal, asst. ch. engr.

Ont., Toronto—Women's Christian Temperance Union plans campaign to raise $100,000 bonds to construct 3 story, brick building at 20 Gerrard St., E.

Ont., Toronto—Theater—Loew Syndicate, 189 Yonge St., having plans prepared by T. Lamb, archt., 644 8th Ave., New York City, building brick on Yonge St. About $300,000.

Ont., Toronto—Theater—Waverly Theater Corp., Ltd., 95 King St. E., had plans prepared by E. F. Sangster, archt., 65 Homewood Ave., building brick theater. About $100,000.

BIDS DESIRED

Mass., Springfield—School—Until Apr. 24, by Com. on City Property, for 1 story brick and timber addition to Chestnut St. school. About $96,000. E. C. and G. C. Gardner, 33 Lyman St., archts. Noted Jan. 23.

Conn., New Haven—Parish—Until Apr. 16, by W. S. Cady, archt., 40 West 32nd St., New York City, building 2 story, 76 x 132 ft. brick and steel, stone flooring, concrete foundation, on Whitney Ave., for Chapel Street Ecclesiastical Society, Whitney Ave. About $100,000.

N. J., Verona (Montclair P. O.)—Sanatorium—Until May 15, by Bd. Freeholders Essex Co., (Newark), building 2, 3 and 4 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Fairview Ave. About $500,000. J. Green, Essex Bldg., Newark, archt. Noted Feb. 6.

La., New Orleans—Trade School—Until Apr. 15, by city, building 4 story, 337 x 400 ft. on City Park Ave. E. A. Christy, city archt.

Tenn., Memphis—Hospital—Until Apr. 15, by Baptist Hospital, Madison Ave., building 8 story, 92 x 101 ft. brick and concrete. About $250,000. C. O. Pfeil, Union & Planters Bank Bldg., archt.

Ind., Huntington—Theater and Store—Until Apr. 10, by H. L. Newhouse, archt., 4630 Prairie Ave., Chicago, Ill., building 44 x 135 ft. brick and rein.-con., rein.-con. flooring, concrete foundation, here, for A. Perfect, c/o architect.

Ill., Chicago—Theater and Offices—Until Apr. 15, by A. L. Levy, archt., 28 North Clark St., building 2 story, 100 x 160 ft., brick and steel, concrete foundation, on Archer Ave. and Sacramento Blvd., for Brighton Theater Co., c/o archt. About $235,000.

Ill., Elmhurst — High School — J. C. Llewellyn, archt., 38 South Dearborn St., Chicago, receiving bids for 2 story, 152 x 168 ft. brick, steel and concrete, concrete foundation, for Bd. Educ. About $125,000.

Ill., Rockford—Church—W. P. Whitney, archt., 38 South Dearborn St., Chicago, receiving bids building 1 story, 72 x 117 ft. brick, concrete and steel, rein.-con. flooring, concrete foundation, for 1st Baptist Church, c/o archt. About $60,000.

Wis., Cameron—Bank and Office—Until Apr. 25, by Bank of Cameron, building 2 story bank and office. W. L. Alban, 347 Endicott Bldg., St. Paul, Minn., archt.

Minn., Lancaster—School—Until Apr. 22, by city building 2 story, 57 x 91 ft., brick and tile. About $50,000. Sund & Dunham, 512 Essex Bldg., Minneapolis, archts.

Minn., Moorhead—City Hall, etc.—Until Apr. 21, by city, building brick city hall and fire station. R. G. Price, city clk. Rosetti & Braseth, 105½ Bway, Fargo, N. D. archts.

S. D., Hurley—School—Until Apr. 20, by Bd. Educ., building 2 story, 60 x 134 ft. brick and steel, concrete foundation. About $85,000. Perkins & McWayne, 322-324 Paulton Bldg., Sioux Falls, archts. Noted Feb. 27.

Mo., Columbia—Dormitory—Until Apr. 16, by P. J. Bradshaw, archt., International Life Bldg., St. Louis, building 3 story, 45 x 125 ft., rein.-con., steel and brick, rein.-con. flooring, rock foundation, near University of Missouri Campus, for Knights of Columbus, 3549 Olive St., St. Louis. About $65,000. L. Hart, member bldg. com. Noted Mar. 13.

Buildings (Continued)

Mo., St. Louis—Fire Houses—Until Apr. 22, by Bd. Pub. Serv. building 2 story, 36x76 ft. and 28 x 65 ft. brick and timber firehouses Nos. 3 and 32 on 20th and St. Charles Sts. About $53,000. L. R. Bowen, city engr. Noted Jan. 30.

Ont., Ottawa—School—Until Apr. 15, by School Bd., building 3 story, brick and timber, rock foundation, on Creighton St. About $120,000. W. C. Beattie, Elgin St., bldg. supt. Noted Mar 20.

Ont., Weston—School—Until Apr. 17, by S. B. Coon & Sons, archts., Excelsior Life Bldg., Toronto, building 2 story, brick, for School Bd. About $60,000. D. Campbell, chn. Noted Mar 20.

B. C., Vancouver—Hospital—Until Apr. 30, by Dept. Pub. Wks., Ottawa, Ont., building 2 story, 40 x 235 ft. neurological ward at Military Hospital here, rein.-con., steel and brick, concrete foundation. About $60,000. R. C. Wright, c/o Dept. Pub. Wks., archt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**R. I., Providence**—Dormitory—Womens College of Brown University, College St., let contract building 4 story, 138 x 145 ft. brick, steel and concrete, rein.-con. flooring, concrete foundation, to C. B. Maguire Co., 1208 Turk Head Bldg. About $150,000. Noted Mar. 13.

★**Conn., Bridgeport**—Home, etc.—Salavation Army, 82 Elm St., will build 4 story, 50 x 100 ft. brick and concrete, concrete foundation, on Elm and Main Sts. About $100,000. Work will be done by day labor. Noted Jan. 2.

★**N. Y., Bath**—Barracks—Bd. Dirs., Soldiers & Sailers Home, let contract building 2 story, 44 x 151 ft., with rear wing, 44 x 75 ft., rein.-con., brick and steel, rein.-con. flooring, brick foundation, at State Institution, to T. H. McHale & Son, 604 Cahill Bldg., Syracuse. About $71,500. Noted Apr. 3.

N. Y., Brooklyn—Schools—Bd. Educ., 500 Park Ave., New York City, received bids building P. S. 100, 4 story, 100 x 144 ft., brick and steel, concrete foundation, on West 1st St.; P. S. 80, 4 story, 100 x 144 ft., brick and steel concrete foundation, on West Nineteenth St., from P. A. Clark Co., Brooklyn, $523,000; Nugent Constr. Corp., 507 5th Ave., New York City, $534,313; Emerson Bldg. Co., 103 Park Ave., New York City, $537,700. Noted Mar. 27.

★**N. Y., New York**—Office—Natl. Aniline & Chemical Co., 21 Burling Slip, let contract for interior and exterior alterations to 4 story, 60 x 100 ft. brick and steel, at 15-19 Burling Slip, to Gillies Campbell Co., 101 Park Ave. About $50,000, cost plus percentage basis.

N. J., New Brunswick—School—Bd. Freeholders, Middlesex Co. received bids building 3 story vocational school on Easton Ave., from Niewenhous Bros., 369 East 163rd St., New York City, $60,340; Hughes, Foulkrod Co., Commonwealth Bldg., Phila., Pa., $63,300; J. Lowry, Jr., 8 East 40th St., New York City, $67,590.

★**Pa., Johnstown**—School—Bd. Dir. School Dist. let contract building main school and boiler house for group of 6 buildings known as William A. Cochran School, in 8th Ward, to Gilpatrick Dawson Co., Empire Bldg., Pittsburgh, $169,635. Noted Feb. 20.

★**Md., Baltimore**—Store—The Hub, Baltimore and Charles Sts., let contract building 2 story, 40 x 85 ft., steel brick and concrete addition and altering store front, to C. L. Stockhausen Co., Gay and Water St., $50,000. Noted Apr. 3.

★**O., Barberton**—Theater—Park Theater Co., 156 Columbus St., let contract building 2 story, 48 x 100 ft. brick and steel, rein.-con. flooring, concrete foundation, on West Tuscarawas St., to W. Bernard, Barberton, O. About $54,000.

O., Toledo—School—Bd. Educ. received bids building 2 story, brick, steel and rein.-con., concrete foundation, at Point Pl., from H. E. Welling, 441 Main St., $94,270. J. Compute, Nasby Bldg., $99,558, Bentley & Sons, 201 Belmont St., $102,215.

O., Toledo—School—Bd. Educ. received bids building 2 story, brick, steel and rein.-con., concrete foundation, at Wernerts Corners, from Hallaway & Berkabile, Delta, $66,958, E. H. Welling, 441 Main St., $72,720, J. Compte, 149 Michigan St., $74,586.

★**Ill., Chicago**—Bank—Douglas Park State Bank let contract building 2 story, 35 x 95 ft. brick and timber, concrete foundation, on 12th and Crawford Sts., to C. E. Brockhausen, 111 West Monroe St. About $75,000.

★**Ill., Chicago**—Library—Chicago Pub. Library, Michigan Ave. and Washington St., let contract building 2 story, 97 x 122 ft. brick and timber, rein.-con. flooring, concrete foundation, on Crawford Ave. and Monroe St., to Dahl-Stedman Co., 11 South La Salle St. About $75,000. Noted Feb. 27.

★**Ill., Chicago**—School—St. Philip Neri School, c/o A. Foster, archt., 155 North Clark St., let contract for 2 story, 60 x 70 ft. brick and timber, concrete foundation, on 72nd St. and Merrill Ave., to F. Burke, 155 North Clark St. About $50,000

★**Wis., Sheboygan**—School—School Dist. No. 6, let contract building 2 story, 28x80 ft., rein.-con. and brick, brick foundation, Wilson Twp., to A. Mollman, Sheboyan Falls.

★**Minn., Bovey**—High School—City let contract building brick and tile addition to high school, to Evenson & Nutterberg, 748 Builders Exch., Minneapolis, $134,690.

★**Minn., Mountain Iron**—School—Bd. Educ. let contract building 3 story, 145x173 ft., rein.-con., brick and steel, rein.-con. flooring, concrete, brick and rock foundation, to A. C. Thomson-Guthrie Co., St. Paul, $209,997. Noted Jan. 30.

★**Minn., Mountain Iron**—School—Bd. Educ. let contract building 3 story, 134x156 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, Leonidas twp., to J. and W. A. Elliott, 906 Liberty Exch., Minneapolis, $109,688. Noted Jan. 30.

★**Neb., Norfolk**—Hotel—North Amer. Hotel Co., c/o F. Fitzpatrick, Bee Bldg., Omaha, will build 8 story, 75 x 176 ft., here. About $100,000. Work will be done by day labor.

★**Tex., Wichita Falls**—Bank and Office—City Natl. Bank let contract building 10 story, to Westlake Constr. Co., 717 Locust St., St. Louis, Mo.

★**Idaho, Caldwell**—High School—School Dist. let contract building 2 story, concrete and brick, rein. con. flooring, concrete foundation, to W. Reed, Twin Falls, $53,000. Noted Feb. 20.

★**Wash., Vancouver**—School—Bd. Educ. let contract building 3 story, 43 x 121 ft., brick and terra cotta, cement flooring, to G. Isackson, Portland, Ore., $52,741.

★**Que., Montreal**—Office—McDougall & Cowans, 95 Notre Dame St., let contract building 1 story, 54x98 ft. brick and stone, concrete foundation, on St. James and St. Francis Xavier Sts., to Purdy & Henderson, 10 Cathcart St. About $55,000.

★**Alta., Edmonton**—Theater—Alberta British Cinematograph Co. let contract building marble theater, to Pheasey & Batson, 203 Alexander Blk. About $250,000.

Federal Government Work

PROPOSED WORK

N. Y., Brooklyn—Heating Funnel—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build heating funnel to connect buildings "C" and "F" at Naval Hospital, here; Spec. 3853. Bids will be opened at local yard.

Pa., Phila.—Elevator Shop—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here. Spec. 3851. About $14,000.

Pa., Phila.—Heating and Humidifying Apparatus—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install in building "D," here; Spec. 3854. About $75,000.

S. C., Charleston—Dry Dock—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build dry dock No. 2, here; Spec. 3858. Work involves 700,000 cu. yd. excav., 250,000 cu. yd. dredging, preparation of site, piping, bulkhead, cofferdam and other temporary structures together with building dry dock proper consisting of 180,000 cu. yd. concrete, pump well, suction chamber, railroad tracks, crane tracks, with supporting concrete construction, culverts and sluices, with hydraulically operated valves, keel blocks, docking keel blocks and bilge blocks, including slides with fitting capstans, pits, docks fitting, conduits, enbedded piping, etc. About $3,500,000.

S. C., Paris Island—Buildings—Bureau Yards and Docks, Navy Dept., Wash., D. C., plans to build additional buildings, here; Spec. 3855.

Mich., Detroit—Harbor Improvements—U. S. Eng. Office, Sault Ste. Marie, plans to widen Livingston Channel, Detroit River, 150 ft. on west side of present improved channel. Project involves removing silt and making rock cut. About $700,000 available.

Mich., Harbor Beach—Harbor Improvements—U. S. Eng. Office, Sault Ste. Marie, plans to deepen entrance of harbor to 23 ft. and harbor to 21 ft., involving 360,000 cu.yd. earth and 15,500 cu.yd. rock excav. L. C. Sabin, engr.

Mich., Port Huron—Harbor Improvements—U. S. Eng. Office, Sault Ste. Marie, plans to deepen channel to 21 ft. for width of 400 ft. on west side of St. Clair River, south of here. Project involves floating dredge work. About $83,000 available.

Montana—Roads—L. I. Hewes, dist. engr., bur. pub. rds., U. S. Dept. of Agriculture, 628 Post Office Bldg., Portland, Ore., plans to grade 7 mi. Lola Pass Rd., Missoula Co., about $40,000; 41 mi. Yaak Valley Rd., Lincoln Co., $32,703; 5 mi. East Fork Bitter Root project, Ravalli Co., $17,600 (county to pay $8800 toward cost), 5 mi. Mill Creek Rd., Park Co., $10,000.

Wash., Newport—Road Work—L. I. Hewes, dist. engr., bur. pub. rds., U. S. Dept. Agriculture, 628 Post Office Bldg., Portland, Ore., plans to grade 13 mi. Metaline Falls Project, Kanisku National Forest, Pend Oreille Co. About $90,000.

Ore., Portland—Road Work—L. I. Hewes, dist. engr., bur. pub. rds., U. S. Dept. of Agriculture, soon lets contract building 22 mi. Crater Lake-Prospect Sect. of Medford-Klamath Falls National Forest Rd., Klamath and Jackson Counties, involving 200 acres clearing and grubbing, 87,000 cu.yd. excav., 9000 cu.yd. rock excav., 3800 lin.ft. concrete pipe culverts and 600 cu.yd. concrete in bridges; 3.5 mi. Anna Creek Sect. of Medford-Klamath Falls National Forest Rd., Crater National Forest, Klamath Co., 14 acres clearing and grubbing, 6000 cu.yd. excav., 150 lin.ft. log and concrete pipe culverts, etc.

H. T., Pearl Harbor—Power Plant Improvements—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans; Spec. 3856. About $80,000.

BIDS DESIRED

Mass., Boston—Cranes—Until Apr. 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., furnishing 6 electric traveling bridge cranes for extension to shop and foundry, here. Spec. 3477. About $175,000.

N. Y., New York—Dredging—Until May 9, by U. S. Eng. Office, 39 Whitehall St., dredging and removing rocks in East River; advertised in this issue.

N. Y., New York—Dredging—Until May 12, by U. S. Eng. Office, 710 Army Bldg., 39 Whitehall St., dredging in narrows of Lake Champlain, N. Y. and Vermont; advertised in this issue.

N. Y., Rockaway—Pump House—Until Apr. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building pump house for gasolene system; Spec. 3836. About $1700.

Pa., Ft. Mifflin—Marine Railway—Until May 8, by U. S. Eng. Office, Witherspoon Bldg., Phila., constructing 192 ft. marine railway, 52 ft. wide, on Delaware River here. Noted Apr. 3 under "Phila."; advertised in this issue.

Del., Wilmington—Dredging—Until May 5, by U. S. Eng. Office, Old Federal Bldg., dredging waterway between Rehoboth Bay and Delaware Bay (Lewes Canal); advertised in this issue.

Md., Indianhead—Roads—Until Apr. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building roads in naval reservation, Spec. 3850. About $70,000. Noted Apr. 3.

D. C., Wash.—Steel Towers—Until Apr. 14, by Constr. Div., Wash., furnishing one 250,000 gal. steel tank erected on steel tower 125 ft. high, equipped with 48 in. riser pipe.

D. C., Wash.—Transits and Levels—Until Apr. 15, by R. M. Reese, chn. bd. awards, Dept. Agriculture, furnishing 60

Federal Government Work (Continued)

No. 27-A Gurley transits complete, or equal, 24 Buff and Buff 16½ in. telescope, also erecting engineer's dumpy levels, complete or equal; advertised in this issue.

Va., Norfolk—Cranes—Until Apr. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing one 6 ton electric traveling crane and two 1 ton pillar cranes; Spec. 3827. About $20,000. Noted Mar. 13.

Va., Norfolk—Dredging—Until Apr. 26, by U. S. Eng. Office, Custom House, dredging for widening channel to Newport News; advertised in this issue.

Va., Norfolk—Dredging and Filling—Until Apr. 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging and filling at Navy Yard here; Spec. 3844. About $200,000.

Va., Norfolk—Galvanizing and Oxy-Acetylene Plants—Until Apr. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Navy Yard, here; Spec. 3772. About $108,000. Noted Jan. 23.

Va., Yorktown—Barracks, Mess Hall and Officers' Quarters—Until Apr. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here; Spec. 3831. About $177,500. Noted Mar. 20.

W. Va., South Charleston—Officers' Quarters—Until Apr. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C. building 4 officers' quarters; Spec. 3829. About $60,000. Noted Mar. 13.

Ala., Florence—Rock Crushers—Until May 9, by U. S. Eng. Office, Florence, furnishing rock crushers; advertised in this issue.

Ky., Louisville — Accumulators, etc.—Until Apr. 30, by U. S. Eng. Office, Louisville, furnishing and delivering accumulators for Lock No. 41, and operating machinery for Lock No. 43, Ohio River; advertised in this issue.

O., Cincinnati—Lock and Abutment—Until May 6, by U. S. Eng. Office, Cincinnati, building lock and abutment for Dam No. 32, Ohio River, about 5 mi. from Vanceburg, Ky.; advertised in this issue.

Mich., Saginaw—Lookout Gallery—Until Apr. 24, by J. A. Wetmore, superv. arch., treas. dept., Wash., D. C., building lookout gallery in post office, here; advertised in this issue.

Mo., St. Louis—Levee Work—Until Apr. 23, by Secy., Mississippi River Comr., 1311 International Life Bldg., for 290,000 cu.-yd. earth work, (210,000 cu.yd. hydraulic fill in old borrow pits and 80,000 cu.yd. levee enlargement) in Lima Lake D. D., Ill.; advertised in this issue.

Mo., St. Louis—Levee Work—Until Apr. 23, by Secy-Mississippi River Comm., 1311 International Life Bldg., for 110,000 cu. yd. earthwork (75,000 cu. yd. hydraulic fill in old borrow pits and 35,000 cu. yd. levee enlargement), in Hunt D.D., Ill.

Tex., Mount Pleasant—Post Office—Until May 8, by J. A. Wetmore, superv. arch., treas. dept., Wash., D. C., building here.

N. D., Bismarck—Dormitory—Until Apr. 28, by C. Sells, comr. Indian Affairs, Washington, D. C., building dormitory at Bismarck School.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Chelsea—Roads—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 7, building roads at Naval Hospital Reservation, from Coleman Bros., 1 Marginal St., $8900 (30 days); Rowe Contg. Co., 45 Milk St., Boston, $13,280 (40 days); C. S. Cunningham & Sons Constr. Co., 7 Water St., Boston, $18,973 (30 days). Noted Mar. 20.

★R. I. Newport—Water Tank—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract erecting one 3,300,000 gal., steel water tank at Naval Training Sta., to Des Moines Steel Co., 959 Munsey Bldg., Wash., D. C., $11,760, (45 days). Noted Apr. 3

N. Y., New York—Sprinkler System—Pub. Wks. Officer, Navy Yard, New York, received lowest bids installing sprinkler system, from Lasette & Murphy, 238 West 108th St., $38,639; C. Meads & Co., 38 Park Row, $43,114; H. G. Bogel Co., $45,444, (60 days).

N. Y., Stapleton—Sewer and Water Supply—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Apr. 2, installing sewer and water supply connections in U. S. Marine Hospital, (1) sewer connections; (2) water supply connections, from F. N. Lewis Co., Herkimer, N. Y., (2) $2750, (60 days); C. E. Eng. Co., Inc., 417 Canal St., New York City, (1) $2390; (2) $2990 (75 days); H. E. Cox Constr. Co., 81 East 125th St., New York City, (1) $2770; (2) $2975, (60 days). Noted Mar. 13.

N. Y., Wards Island—Electrical Conduit and Switchboard—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 7, extending underground electric system and installing additon to switchboard at U. S. Naval Hospital.

(1) net price for entire work, complete, in accordance with drawings and specifications, based on time of completion of 30 calendar days from date of the award of contract.

(2) net price for entire work, complete in accordance with drawings and specifications, based on time of completion of 50 calendar days from date of award of contract, from

G. E. Eng. Co., 417 Canal St., New York City (1) $4290 (30 days); (2), $3790, (50 days).

W. G. Cornell Co. 45 East 7th St., New York City, (1) $4300, (30 days); (2) $4300, (50 days).

Reese & O'Donovan, 213 West 28th St., New York City, (1) $5440, (30 days); (2) $4940, (50 days).

E. S. Downs Co. 9 Campbell St., Newark, N. J., (2) $3639, (50 days).

E. J. Electric Installation Co. 221 W. 33rd St., New York City, (2) $3997, (50 days) noted Apr. 3.

★Md., Indianhead—Incinerator—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Proving Ground to C. F. Walthers, 624 West 134th St., New York city, $6985, (90 days). Noted Apr. 3.

★D. C., Wash.—Forced Induced Draft Fans—Bureau Yards & Docks, Navy Dept., Wash., let contract installing in Norfolk, Va. and Phila., Pa. Navy Yards, to B. F. Sturtevant Co., 900 F St., N. W., $39,024, (120 days). Noted Mar. 20.

★Va., Norfolk—Dredging—U. S. Eng. Office, Norfolk, let contract dredging inland waterway from here to Beaufort Inlet, N. C., to Atlantic, Gulf & Pacific Co., 13 Park Row, New York City, $326,000. Noted Feb. 6.

★Va., Norfolk—Dredging—U. S. Eng. Office, Norfolk, let contract dredging Norfolk channel from Hampton Roads to Norfolk & Western Ry. bridge, to F. E. Jones, Norfolk, $1,026,000. Noted Mar. 6.

Va., Norfolk—Timber Wharf—Bureau Yards & Docks, Navy Dept., received bids building timber wharf at Navy Yard, here.

(1) net price and time for entire work, complete, in accordance with drawings and specification.

(2) net price per linear foot for additional length of piles over 70 ft. provided additional length of pile is spliced on point and uncreosoted.

(3) net price per linear foot to be deducted from price bid under (1) for each linear foot decrease from stated length of 70 ft.

(4) net price per linear foot to be deducted from price bid under (1) for each linear foot decrease from the stated length of 40 ft. for 12 in. sheet pile.

(5) net price per linear foot to be deducted from the price bid under (1) for each linear foot decrease from stated length of 40 ft. for 12 in. sheet pile, from

Sanford & Brooks Co. 24 Commerce St., Baltimore, Md., (1) $67,750, (100 days); (2) $1.50; (3) $0.60; (4) $0.50; (5) $1.00.

Alsop & Pierce, Newport News, (1) $76,000; (2) $1.75; (3) $0.55; (4) $0.50; (5) $1.00 (110 days).

Raymond Concrete Pile Co., 140 Cedar St., New York City, (1) $77,440, (75 days); (2) $2.00; (3) $0.20; (4) $0.20; (5) $0.25.

Aberthaw Constr. Co., 27 School St., Boston, Mass., (1) $74,460 (180 days); (2) $0.75; (3) $0.12; (4) $0.20; (5) $0.22. Noted Feb. 13.

Fla., Pensacola—Electrical Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 7, installing in central power plant at Navy Yard, here.

(1) net price and time for entire work, complete, in accordance with drawings and specification.

(2) net price and time to be added to (1) for furnishing and installing additional feeder panels, equipped similar to panels 21 to 26.

(3) net price and time to be added to (1) for furnishing and installing an auto transformer for 225 H. P. 2200 volt, 3 phase, 60 cycle synchronous meter.

(4) net price and time to be added to (1) for furnishing and installing two induction type definte time limit single phase relays for panel 15 and 2 induction type inverse time limit single phase relays for each of panels 20 to 26 inclusive, from

United Electric Co. 1727 Sansom St. Phila., (1) $19,300 (120 days); (2) $1460; (3) $250; (4) $696.

Carroll Electric Co., 714 12th St., Wash. D. C., (1) $19,850 (150 days); (2) add $1245; (3) add $215; (4) add $605.

G. E. Eng. Co. 417 Canal St., New York City, (1) $19,990, (120 days); (2) $1469; (3) $464; (4) $100. Noted Mar. 27.

Fla., Pensacola—Warheads and Detonator Storehouses—Bureau Yards & Docks, Navy Dept., Wash., D. C., received only bid building at Naval Air Sta., from C. H. Turner Co., 30 East Garden St., $5594 (90 days).

★Ala., Decatur—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., let contract building post office, here, to S. M. Plato, Marion, Ind., $44,493. Noted Mar. 27.

Kan., Eldorado—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Apr. 4, building post office, here, limestone, from C. E. Goodland, Chadron, Neb., $54,750; W. O'Neil & Son Co., Faribault, Minn., $57,762; Henry & Hatfield Constr. Co., Indianapolis, Ind. $60,372. Noted Mar. 6.

Tex., Honey Grove—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids Apr. 2, building post office, (1) limestone; (2) sandstone, from Cooper & Lund, 142 Market St., Newark, N. J., (1) $48,983; (2) $50,583; Henry & Hatfield Constr. Co., Indianapolis, Ind., (1) $49,817; (2) $50,817; R. P. Farnsworth & Co., New Orleans, La., (1) $52,900. Noted Mar. 6.

★Tex., North Ft. Worth—Argon Production Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to Dawson Constr. Co., 810 Union Trust Bldg., Wash., D. C., $431,000 (180 days). Noted Mar. 27.

★Tex., Point Isabel—Radio Buildings—Pub. Wks. Officer let contract building at St. Joseph, to J. McCoy, Monroe and 10th Sts., Brownsville, $16,844 (100 days). Noted Apr. 3.

★Tex., Sabine Pass—Jetty Works—U. S. Eng. Office, Dallas, let contract building east jetty, here, to D. M. Pickton, Galveston, $251,185. Noted Jan. 23.

★Idaho, Boise—Irrigation Project—U. S. Recl. Serv. let contract building portion of Notus Canal, to Idaho Constr. Co., Boise, $19,426; building sections of Feeder Canal No. 2 and Notus Canal, to S. C. Comerford, R. F. D. 1, $39,131.

Cal., Mare Island—Steel—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Apr. 7, furnishing steel for structural shop at Navy Yard, here.

(1) 6120 tons structural steel and crane rails, (a) structural steel, (b), 85 tons crane rails.

(2) steel and c.i. stairs and landings, (a) 53,300 lb. steel stair framing, (b) 70,000 lb. c.i. treads and landings, (c) 450 sq. ft. safety treads.

(3) 1000 lin. ft. pipe railing.

McClintic Marshall Co. 1144 Munsey Bldg., Wash., D. C., (1a) $92.40; (1b) $92.40; (2a) $0.068; (2b) $0.087; (2c) $2.80; (3) $1.50; (210 days).

Amer. Bridge Co., Wilkins Bldg., Wash., D. C., (1a) $93; (1b) $93; (2a) $6.09; (2b) $0.095; (2c) $2.23; (3) $2.47; (170 days).

Bethlehem Steel Co. Bridge Corp. Bethlehem, Pa., (1a) $93.40; (1b) $69.60; (2a) $6.22 (2b) $8.81; (2c) $1.80; (3) $1.50; (210 days). Noted Apr. 3.

★Alaska, Nome—Dredging, etc.—U. S. Eng. Office, Seattle, Wash., let contract building bank revetment and jetties and dredging in Nome Harbor, to W. J. Rowe, Nome, dredging, $26,950; Guinan & Ames, Selah, Wash., bank revetment, $40,824. Noted Feb. 27.

Miscellaneous

PROPOSED WORK

Bulkhead—New Bedford, Mass.—City soon lets contract building 89 x 140 ft. pile, timber and riprap bulkhead, platform and cofferdam at Howland and Gifford Sts., involving yellow pine (No. 1 common) 6 in. white oak piles, 3 in. sheet piling and ¾ in. bolts. G. H. Nye, city engr.

Coal Pocket—Springfield, Mass.—See "Industrial Works."

Gate—Providence, R. I.—Brown University, College St., plans to build limestone memorial gate on Thayer St. About $25,000.

Miscellaneous (Continued)

Coal Pocket — Bridgeport, Conn. — H. Schurr, 1119 Stratford Ave., soon receives bids building concrete coal pocket on Housatonic Ave. near Congress St. About $12,000.

Transmission Line—Clark Mills, N. Y.— Adirondack Electric Power Corp., Union Sta., Utica, plans to build 16 mi. transmission line from its substation here to one at Oneida; thereby connecting company's Oneida and Canastota plants with high tension line.

Ballast—New York, N. Y.—Pub. Serv. Comn., 49 Lafayette St., rejected bids furnishing ballast for use in building rapid transit railroads, "Sect. M." Noted Mar. 20.

Retaining Wall—Rochester, N. Y.—City having surveys made for concrete retaining wall along westerly side of Carrol-Fitzhugh raceway; also tunnel from Erie Canal to Court St. A. C. Poole, city engr.

Water Meters—Magnolia, Miss.—X. A. Kramer, engr., plans to purchase 2000 water meters.

Park, etc.—Alton, Ill.—City plans to build ½ mi. park and driveway on river front. About $100,000. W. M. Sauvage, mayor.

Sluice Gates—Milltown, Mont.—Missoula Light & Water Co., Missoula, having plans prepared for sluice gates in company's power dam near here. About $60,000. C. H. Christensen, mgr.

Swimming Pool—Missoula, Mont.—City had plans prepared by O. Bakke, archt., Missoula, for 40 x 120 ft., concrete, inclosed swimming pool. About $15,000.

Balustrade—St. Louis, Mo.—Bd. Pub. Serv. plans to build stone balustrade, 39-45 in. high, around lagoon in Forest Park. About $90,000. N. Cunliff, comr. park dept.

Dike—Coupeville, Wash.—Island Co. soon lets contract building dike at head of Useless Bay. About $15,000.

Dry Dock—Seattle, Wash.—Ames Shipbuilding & Dry Dock Co., 26th St., S. W. and West Hanford St., plans to build frame dry dock capable of lifting 12,000 ton ship. Work involves 3,000,000 ft. timber. About $90,000.

Pier—Portland, Ore.—City soon lets contract building Pier No. 1, 300 ft. long, 120 ft. wide; Pier No. 2, 1500 ft. long, 125 ft. wide, timber foundation, involving 5000 piles; wharf 100 ft. wide at east end of slip No. 1 at St. Johns Terminal, North St. Johns Dist., east side of Williamette River. G. B. Hegardt, engr. comr. pub. docks. Noted Mar. 13.

Pipe—Portland, Ore.—City soon lets contract furnishing 50 tons 12 in. c.i. water pipe. P. McIntosh, asst. purch. agt.

Pipe Lines—Santa Barbara, Cal.—City plans election to vote on $100,000 bonds, $40,000 being needed to complete Gibraltar dam under contract now held by Bent Bros., 825 Central Bldg., Los Angeles, and $54,000 for building pipe lines; 24 in. redwood stave pipe line will probably be built to carry water from Gibraltar dam to Mission Reservoir. Noted Feb. 20.

Monument—Hull, Que.—Notre Dame Parish receives bids in May building monument on City Hall Sq. Cost between $15,000 and $20,000.

Refrigerating Equipment—Ottawa, Ont.—J. A. Pearson, archt., Centre Blk., Parliament Hill, soon lets contract installing refrigerating equipment in Parliament Buildings.

Portland Cement and Structural Steel—Toronto, Ont.—R. Miller & Sons, Ltd., Lumsden Bldg., soon let contract furnishing 138,000 sacks portland cement, 328 steel angles and 166 twelve in. channels fabricated.

Harbor Improvements, Breakwaters, etc. —Canada—Dominion Government, Ottawa, Ont., plans following improvements during 1919 and 1920: Harbor and river at Port Arthur, Ont., cost $300,000; harbor at St. John, N. B., $750,000; harbor at Toronto, Ont., $500,000; harbor at Inverness, N. S., $18,000; harbor at Rimouski, Que., $69,000; repairing and strengthening Souris breakwater, P. E. I., $35,000; Devils Island breakwater., N. S., $10,000; Negro Point breakwater, N. B., $15,000; Port Colborne, Ont., breakwater, $52,000; new wharfs at Anse aux Gascous, Que., $36,000; Stewart, B. C., $34,000; Kagawong, Ont., $10,000; repairing wharfs at Berthier (en bas) Que., $18,600; Magog, Que., $22,000; Sillery Wharf, Pointe Pizeau, Que., $16,000; Ste. Anne de Beaupre, Que., $39,000; Ste. Famille, Que., $17,000; St. Laurent, Island of Orleans, Que., $15,000; St. Michel de Bellechase, Que., $53,600; Vercheres, Que., $10,000; Burlington Channel, Ont., $23,900; Comax, B. C., $20,300; New Masset, B. C., $10,500; Thessalon, Ont., $11,500; building addition to wharf and dredging Powell River, B. C., $16,500; repairing piers at Cobourg, Ont., $26,000; Port Hope, Ont., $11,500; rebuilding Ft. Dufferin breastwork, N. B., $18,000; rebuilding ice breakers at Richmond, Que., $13,300; monument at Ottawa, Ont., $25,000; diversion of Pelican Lake, Little Pembinia River, Man., $19,500. E. D. Lafleur, c/o Dept. Pub. Wks., Ottawa, ch. engr.

PIPE LINE—JERSEY CITY, N. J.

Bids were received by city, March 25th, for furnishing and laying 39,590 ft. 72 in. riveted steel pipe line between Boonton Reservoir and west entrance of Watchung Tunnel, (1) total computed by contractor, (2) total computed by Clyde Potts, engineer, from (A) Gaylord International Eng. & Constr. Co., Mears Bldg., Scranton, Pa.; (B) Patrick McGovern, 50 East 42nd St., New York City; (C) Liberty Constr. Co., New York City; (D) Snare & Triest Co., 8 West 40th St., New York City, (1) $1,321,557; (E) J. W. Brody & Co., New York City, (1) $1,346,685; (F) J. L. Sigretto & Co., South Curtis Ave., Woodhaven, N. Y., (1) $1,405,606, (2) $1,380,606; (G) H. E. Fox Constr. Co., 81 East 125th St., New York City, (1) $1,382,431; (H) T. Curtis, New York City, (1) $1,421,209; (I) Beaver Eng. & Constr. Co., 51 Chambers St., New York City, (1) $1,419,158, (2) $1,421,702; (J) Norton Eng. & Contg. Co., 103 Park Ave., New York City (1) $1,429,094; (K) Constr. Co. of New Jersey, 665 Newark Ave., Jersey City, (1) $1,464,006, (2) $1,462,666; (L) Albert Decker, East Orange, $1,465,700; (M) Frank Pano, Brooklyn, N. Y., (1) $1,510,525, (2) $1,511,180; (N) Hugh Nawn Constr. Co., 82 Savin St., Boston, Mass., (1) $1,531,403; (O) W. H. Gahagan, Inc., 147 Remsen St., Brooklyn, N. Y., (1) $1,782,977. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
100,000 cu.yd. trench excavation—earth	$2 80	$2 95	$4 00
10,000 cu.yd. trench excavation—rock	6 00	4 95	6 00
34,125 lin.ft. 72-in. steel pipe ¾-in. thick	20 15	22 00	22 00
465 lin.ft. 72-in. steel pipe ⅞-in. thick	25 75	25 15	40 00
1,000 cu.yd. concrete	21 00	25 00	15 00
10,000 lb. reinforcing steel	0..	08	.10
35 cu.yd. brick masonry	35 00	25 00	25 00
66 cu.yd. rubble masonry	7 50	8 00	12 00
50 sq.yd. stone paving	5 50	6 00	5 00
11 M.H. heads and covers	75 00	50 00	45 00
20,000 ft.b.m. lumber	110 00	95 00	150 00
2,500 linft. piles	1 00	1 00	1 70
20 lin.ft. 6 in. cast iron pipe	2 75	2 00	4 50
1500 lin.ft., 8-in. cast iron pipe	3 25	3 00	5 00
20 lin.ft., 10-in. cast iron pipe	4 25	4 00	6 00
120 lin.ft., 12-in. cast iron pipe	4 75	5 00	7 00
120 lin.ft., 16-in. cast iron pipe	6 50	6 00	8 00
6-in. air valve	275 00	250 00	300 00
5 8-in. air valves	615 00	550 00	600 00
10-in. air valve	875 00	800 00	800 00
11 8-in. gate valves	55 00	80 00	80 00
10-in. gate valve	75 00	100 00	100 00
8 12-in. gate valves	97 00	125 00	140 00
8 16-in. gate valves	205 00	200 00	250 00
36-in. gate valve	1,625 00	1,500 00	1,500 00
5 48-in. gate valves	3,275 00	3,000 00	3,500 00
100 lin.ft. 6-in. vitrified sewer pipe	3 60	1 75	1 00
100 lin.ft. 8-in. vitrified sewer pipe	3 75	2 00	1 60
100 lin.ft., 12-in. vitrified sewer pipe	4 00	3 25	2 20
100 lin.ft., 18-in. vitrified sewer pipe	6 00	4 50	3 50
Extended totals	$1,098,076	$1,166,810	$1,286,002

Bids for this same work were opened Aug. 13, 1918, but the contract was not awarded on account of the Priorities Board withholding their approval to the use of the steel plates. The lowest bid at that time was $2,578,921, while the present lowest bid is $1,098,076, a reduction of $480,845 as against the war conditions which were prevailing at that time, and a consequent saving to the city.

BIDS DESIRED

Dam, etc.—Scituate (North Scituate P. O.), R. I.—Until Apr. 30, by Water Supply Bd., City Hall, Providence, building portions of main dam of Scituate reservoir. Contract 11, involving 132,000 cu.yd. earth excav. and borrow, 3500 cu.yd. rock excav., 1500 cu.yd. concrete masonry; also building 3.5 mi. earth road, 10 mi. westerly of Providence, Contr. 10, involving 24,000 cu.yd. earth excav. and borrow, 800 cu.yd. rock excav. and 400 cu.yd. concrete masonry. F. E. Winsor, ch. engr.; advertised in this issue.

Tanks, etc.—Long Island City, N. Y.—Until Apr. 14, by M. E. Connolly, pres. Queens Boro., furnishing and delivering to Bur. of Highways, four 5000 gal. storage tanks, 850,000 gal. road oil; 100,000 gal. bituminous road surfacing material, 75,000 gal. road oil in tank cars, 65,000 asphalt paving blocks.

Stone, etc.—St. George, S. I., N. Y.—Until Apr. 17, by C. D. Van Name, pres. Richmond Boro, furnishing and delivering 800 cu. yd. 1½ in. broken stone, 300 cu. yd. screenings and 100 cu. yd. ¾ in. broken stone of trap rock in Dist. No. 1; 1900 cu. yd. 1½ in. broken stone, 750 cu. yd. screenings and 100 cu. yd. ¾ in. broken stone of trap rock in Dist. No. 2; 1250 cu. yd. 1½ in. broken stone, 550 cu. yd. screenings and 60 cu. yd. ¾ in. broken stone of trap rock in Dist. No. 3. Former bids rejected. Noted Apr. 3 under New York.

Traprock—East Orange, N. J.—Until Apr. 14, by City Council, furnishing 7000 tons 1½ i. and 3000 tons ¾ in. trap rock, also 3000 tons trap rock screenings. W. D. Willigerad, City Hall, engr.

Pipe—Newark, N. J.—Until Apr. 15, by T. L. Raymond, dir. dept. streets & pub. impvts., furnishing and delivering at store room of Bureau Water, 100,000 lb. ¾ in., and 20,000 lb. 1 in. A. A. lead pipe, also 100,000 lb. pig lead. M. Sherrerd, City Hall, engr.

Repairing and Repainting—Lancaster, Pa.—Until Apr. 28, by Comrs. Lancaster Co., repairing and repainting outside of county court house. E. E. Mowrer, co. controller; advertised in this issue.

Steel—Phila., Pa.—Until Apr. 22, by W. S. Twining, dir. dept. city transit, Mershon Bldg., 1211 Chestnut St., furnishing and erecting in place 1500 tons steel for Frankford Elevated Ry.

Heater—Akron, O.—Until Apr. 18, by H. S. Morse, dir. pub. serv., Delaware Bldg., furnishing 1 vertical open metering feed water heater, meter to be equipped with indicating, recording and integrating device, exhaust steam to be supplied to heater at about 3 lb. back pressure, Contr. No. 140; advertised in this issue.

Miscellaneous (Continued)

Meter Pipes, etc.—Toledo, O.—Until Apr. 29, by dir. pub. serv. furnishing and delivery at Bway. Pumping Sta. one 36 in. venturi meter, 53 tons c.i. pipe and fittings, one 36 in. check valve, two 36 in. hydraulic gate valves, one 42 in. geared gate valve and one 42 in. hydraulic gate valve. D. H. Goodwillie, Valentine Bldg., Toledo, engr.

Road Material—St. Paul, Minn.—City is receiving bids furnishing 1000 bbls. Portland cement, 419 ft. sewer pipe and 14,885 sewer brick for paving Prior Ave. from University Ave. to Minnehaha St.; and 9200 sewer brick to be used in paving Como Ave. from Rice St. to Great Northern Bridge. Former contract rescinded.

Road Oil—Fresno, Cal.—Until Apr. 22, by Bd. Supervs. furnishing 90,000 to 110,000 bbl. road oil.

Steel Piling — Los Angeles, Cal. — Until Apr. 18 by Bd. Pub. Serv., 645 South Olive St., furnishing steel piling.

Asphalt Flux, Road Oil, etc.—Ottawa, Ont.—Until Apr. 15, by Bd. Control, furnishing 15,000 gals. asphalt flux oil, 150,000 gals. road oil and 25,000 gals. fuel oil. (light, medium and heavy oil will be required). A. F. McCallum, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Asphalt and Oil—Fall River, Mass.—Street Dept. received bids furnishing (a) asphalt, (b) road oil, (for year's requirements) from Standard Oil Co., foot of Birch St., (a) $23.80 per ton; (b) $.064; $.075; $.089 and $.101 per gal.; Texas Co., 24 Slade St., (a) $24.40 per ton; United States Asphalt Refining Co., 90 West St., New York City, (a) $26.75; J. J. Galvin, Fall River, (b) $.0675; $.0685; $.079; $.0875; $.099 per gal.; Amer. Oil Products Co., (b) $.0645; $.0875; $.0845; $.099; $.125 per gal.

Sand, etc.—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro., received bids Apr. 3, furnishing and delivering (a) 2500 cu.yd. sand; (b) 2500 cu.yd. broken stone or grits; (c) 2 automobile pressure distributors, from C. A. Myers, foot of Stagg St., (a) $10,335; (b) $6500; E. W. Fitzpatrick, 128 3rd Ave., (a) $12,190; Welsh Bros., 14 Queen St., (a) $12,610; T. F. Tuohy, 98 Main St., (a) $14,495; (b) $5975; Peace Bros., 20 Main St., (b) $7375; Harold Motor Car Co., (c) $16,138. Noted Mar. 27.

★**Ballast—New York, N. Y.**—Pub. Serv. Comn., 49 Lafayette St., let contract furnishing ballast for use in building rapid transit railroads, Secs. "K" and "L" to New York Trap Rock Co., 17 Battery Pl., $85,500 and $24,050 respectively. Noted Mar. 20.

★**Paving Blocks—New York, N. Y.**—J. H. Delaney, comr. plant and structures, Municipal Bldg., let contract furnishing and delivering 200,000 wood paving blocks, 3 x 8 in., and 200,000 blocks 2 x 6 in., to Amer. Creosoting Co., 17 Battery Pl., $7816 and $3196 respectively. Noted Mar. 27.

Road Oil—New York, N. Y.—Dept. of Parks, received bid Apr. 3, furnishing and delivering 80,000 gal. tar road oil (Bronx Boro.), from Barrett Co., 17 Battery Pl., $10,000. Noted Mar. 27.

★**Treated Ties—New York, N. Y.**—City let contract furnishing 442,000 ft. b.m. treated ties, to Amer. Creosoting Co., 17 Battery Pl., $42,412.

★**Truck and Paving Material—Schenectady, N. Y.**—Bd. Contr. and Supply, let contract furnishing and delivering 3 ton truck for Water Bureau, to N. L. Schupp & Sons, 316 Central Ave., Albany, $3750; asphalt mixture, to Good Rd. Co., 26 South 15th St., Phila. Noted Mar. 20.

★**Road Roller—Newark, N. J.**—Bd. Freeholders Essex Co. let contract furnishing 12 ton single cylinder gasoline road roller, to Austin-Western Rd. Mchy. Co., 50 Church St., New York City, $3800. Noted Mar. 27.

★**Column Foundations—Phila., Pa.**—W. S. Twining, dir. dept. city transit, Mershon Bldg., 1211 Chestnut St., let contract building 68 concrete column foundations in Front St., from above Arch St. to Callowhill St., on Frankford Elevated line, to Brown-King Constr. Co., Coml. Trust Bldg., about $29,800 (with some additions). Noted Mar. 13.

FOUNDATIONS—PHILADELPHIA, PA.

Bids were received by W. S. Twining, dir. dept. city transit, for building 68 concrete column foundations in Front St. from above Arch St., to Callowhill St., Frankford Elevated Ry., Contr. 500, from (A) Brown-King Constr. Co., 1632 Commercial Trust Bldg.; (awarded contract); (B) I. K. Davis Co., 20th and Spencer Sts.; (C) Keystone State Construction Co., Franklin Bank Bldg. The unit bids were as follows:

	A	B	C
For whole work as shown on the plans (lump sum)	$29,800 00	$32,900 00	$36,900 00
100 cu.yd. excavation	3.75	6.00	3.50
10 cu.yd. concrete masonry	12.00	15.00	16.00
100 lin.ft. rolled steel channels for sheathing	1.00	1.25	.50
1,000 lb. steel work, miscellaneous	.06	.10	.10
1,000 lb. iron castings	.06	.08	.05
10 cu.yd. brick masonry	22.00	22.00	28.00
10 cu.yd. rubble stone masonry	8.00	10.00	9.00
1,000 ft.b.m. yellow pine lumber	80.00	110.00	50.00
10 lin.ft. 5 in. or 6 in. extra heavy c.i. soil pipe	1.50	2.50	1.00
10 lin.ft. 5 in. or 6 in. vitrified clay pipe	.50	.80	.40
10 lin.ft. 8 in. or 10 in. vitrified clay pipe	.75	1.10	.75
10 lin.ft. 12 in. vitrified clay pipe	1.10	1.50	1.00
10 lin.ft. 15 in. or 18 in. vitrified clay pipe	1.70	2.00	1.50
New inlets—any size	150.00	250.00	150.00
100 lin.ft. steel bound granolithic curb	.80	1.50	1.50
10 lin.ft. furnishing and setting bluestone curb	1.50	1.50	1.25
10 lin. ft. furnishing and setting granite curb	3.25	3.00	2.50
100 linft. resetting stone curb	.50	.60	.50
100 sq.yd. new brick or flagstone sidewalk paving	1.25	2.25	1.50
100 sq.yd. relaying brick or flagstone sidewalk	.55	1.25	.80
100 sq.yd. granolithic sidewalk paving	2.70	2.50	2.25
100 sq.yd. granite block repaving on gravel base	1.40	1.75	1.00
100 lin.ft. of single duct. terra-cotta conduits	.40	.50	.30
10 boxes new curb stop boxes or vent boxes	5.00	10.00	2.50
Force account (per cent added)	10%	15%	20%
Extended totals	$32,058	$36,044	$39,279

DAM—LOS ANGELES, CAL.

Bids were received by Board of Supervisors of Los Angeles Co. for building concrete masonry arch dam, northwest of Pasadena, from (A) Bent Bros., Central Bldg.; (B) McPeak & Dillon, Los Angeles; (C) W. C. Crowell, 440 Chamber of Commerce Bldg., Pasadena; (D) Edenger & Stoner, $232,083; (E) Fred Hoffman, $239,915; (F) Sharp & Fellows ontg. Co., Central Bldg., $245,313; (G) F. S. Somers, $248,575. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
3000 cu.yd. dry earth excavation	$1 80	$0 85	$1 20
2000 cu.yd. wet earth excavation	1 80	1 25	1.75
3000 cu.yd. dry solid rock excavation	3 85	2 75	3.50
3000 cu.yd. wet solid earth excavation	3 85	2 75	4.50
28,350 cu.yd. concrete which may have large stones embedded	2 55	3 85	3.96
4000 cu.yd. plain concrete	2 55	4 85	4.58
1000 cu.yd. re-enforced concrete	11 60	17 00	8.50
620 lin.ft. precast hand rail, lamp posts, etc.	7 50	3 50	3.00
620 lin.ft. of 2 in. fibre conduit with No. 6 copper wire as per paragraph 54 of specifications, pulled into conduit and lamp posts set in place	1 00	80	1.20
300 lin.ft. of concrete lined tunnel	71 00	74 00	124.00
10,000 lb. steel re-enforcement	.06	10	.06
6300 sq.ft. road surfacing	.15	22	.20
300 lin.ft. 2½-in. drilled grout holes	5 00	1 50	4.00
1000 sacks cement placed in grouting	.60	.75	1.00
Extended totals	$169,908	$224,850	$232,083

★**Pier—Phila., Pa.**—Dept. Wharves, Docks and Ferries, Bourse Bldg., let contract building Pier No. 82 and 84, South Delaware Wharves, at foot of Wolf and Porter Sts., to A. McMullen Co., 149 Bway New York City, $1,356,700 and $1,309 700 respectively, Noted Mar. 13.

★**Culverts — Baltimore, Md.** — City will build two 10 ft. concrete culverts, one 30 ft. wide, other 36 ft. wide, on Annapolis Ave. About $10,000. Work will be done by day labor.

★**Dams, etc.—Plymouth, Mich.**—H. Ford & Son, Dearborn, let contract building rein.-con. dam and intake over River Rouge, to Walbridge Aldinger Co., 2346 Penobscot Bldg., Detroit. Work involves 50 ft. rein.-con. spillway, 100 ft. earth dam with rein.-con. core wall and 225 wood piles in foundation of spillway.

★**Pumps, etc.—Wyandotte, Mich.**—City let contract furnishing 2 low lift motor driven centrifugal pumps, 21,000 and 42,000 gal. per minute; also steam driven unit with 5,000,000 gal. daily capacity, to Platt Iron Wks., Arrott Bldg., Pittsburg. About $12,000.

★**Ice Machine—East St. Louis, Ill.**—Swift & Co., Natl. Stockyards, will build 500 ton, 22 x 48 ft. ice machine, concrete foundation, to contain 700 cu.yd. concrete. About $114,000. Work will be done by day labor.

★**Trimming and Lining Reservoir — El Segundo, Cal.**—Standard Oil Co. let contract trimming and lining with cement and wire mesh, 1,000,000 gal. circular oil reservoir, to Bent Bros., Central Bldg., Los Angeles.

★**Dam—Los Angeles, Cal.**—Bd. Supervs. Los Angeles, let contract building concrete masonry arch dam, 125 ft. high, northwest of Pasadena, to Bent Bros., Central Bldg., $169,907. Work involves 3000 cu. yd. dry excav., $1.80 per cu. yd.; 200 cu. yd. wet excav., $1.80 per cu. yd.; 3000 cu. yd. dry rock excav., $3.85; 3000 cu. yd. wet rock excav., $3.85; 28,350 cu. yd. concrete, $2.55; 4000 cu. yd. plain concrete, $2.55; 1000 cu. yd. rein.-con., $11.60; 620 lin. ft. concrete handrail, $7.50; 620 lin. ft. concrete conduit, $1.50; 300 lin. ft. concrete tunnel, $71; 10,000 lb. rein. steel, $.06 per lb.; 6300 sq. ft. road surfacing, $.15; 3000 lin. ft. 2 in. grout holes, $5; 1000 sacks cement for grouting, $.60. County will furnish 42,000 bbl. cement. Noted Feb. 6.

★**Incinerator—Pasadena, Cal.**—City let contract building garbage incinerator and installing equipment to manufacture stock food, to R. C. Deveraux and F. P. Smith, Pasadena. About $21,333.

★**Tower — Montreal, Que.** — Dominion Flour Co., 300 St. Ambrose St., let contract building steel marine tower, concrete foundation, and c.i. columns, to J. M. Robertson, Ltd., Coristine Bldg. About $45,000.